**CURRICULUM VITAE**

**Date prepared**: September 1, 2022

**NAME**: Nicholas C. Jacobson

**OFFICE ADDRESS**:

Center for Technology and Behavioral Health

Geisel School of Medicine at Dartmouth College

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Voice: (603) 646-7037

1. **EDUCATION**

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| **DATE** | **INSTITUTION** | **DEGREE** |
| 2007-2011 | Truman State University,Kirksville, Missouri | Bachelor of Science, PsychologyMinors: Statistical Methods, English, and Justice SystemsReceived: Spring 2011 |
| *Cumulative Undergraduate G.P.A.:3.91 (4.0=A), Summa Cum Laude* |
| 2011-2015 | The Pennsylvania State UniversityUniversity Park, Pennsylvania | Master of Science, Psychology |
| 2015-2019 | The Pennsylvania State UniversityUniversity Park, Pennsylvania | Ph.D., Clinical PsychologyReceived: Summer 2019 |
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1. **FELLOWSHIPS AND POSTDOCTORAL TRAINING**

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| **DATE** | **INSTITUTION** | **ROLE** |
| 2018-2019 | Massachusetts General Hospital, Harvard Medical SchoolBoston, Massachusetts | Clinical Fellow, Psychiatry |
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| 2019 | Massachusetts General Hospital, Harvard Medical SchoolBoston, Massachusetts | Postdoctoral Fellow, Psychiatry |

1. **Academic Appointments:**

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| **DATE** | **INSTITUTION** | **ROLE** |
| 2019-Present | Dartmouth CollegeGeisel School of MedicineHanover, New Hampshire | Assistant Professor, Department of Biomedical Data Science(Primary) |
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| 2019-Present | Dartmouth CollegeGeisel School of MedicineHanover, New Hampshire | Assistant Professor, Department of Psychiatry (Secondary) |
| 2019-Present | Dartmouth CollegeGeisel School of MedicineHanover, New Hampshire | Assistant Professor, Quantitative Biomedical Sciences Graduate Program (Secondary) |
| 2021-Present | Dartmouth CollegeArts and SciencesHanover, New Hampshire | Adjunct Assistant Professor, Computer Science (Secondary) |

1. **DARTMOUTH Institutional Leadership Roles**

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| **DATE** | **INSTITUTION** | **ROLE** |
| July 2021-Present | Dartmouth CollegeGeisel School of MedicineHanover, New Hampshire | Deputy Director, Treatment Development and Evaluation Core,Center for Technology and Behavioral Health (National Institute of Drug Abuse, Center of Excellence P30) |

1. **Licensure and Certification (if applicable)**

N/A

1. **Hospital or Health System Appointments**

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| --- | --- | --- |
| **DATE** | **INSTITUTION** | **ROLE** |
| March 2020-Present | Massachusetts General HospitalObsessive-Compulsive and Related Disorders Program (OCD)Department of PsychiatryBoston, Massachusetts  | Consultant - Non-Clinical |
| August 2019-Present | Massachusetts General HospitalObsessive-Compulsive and Related Disorders Program (OCD)Department of PsychiatryBoston, Massachusetts | Non-Employee |

1. **Other Professional Positions (NON-DARTMOUTH):**

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| **DATE** | **INSTITUTION** | **ROLE** |
| December 2013-November 2016 | Clinical Research Methods and Statistics Special Interest Group (SIG)Association for Behavioral and Cognitive Therapy (ABCT) | President |
| August 2009-May 2011 | Psi Chi, The International Honor Society in PsychologyTruman State University | President |

1. **Professional Development Activities**

**CLINICAL TRAINING AND EXPERIENCE**

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| **DATE** | **INSTITUTION** | **ROLE** |
| July 2018-June 2019 | Massachusetts General Hospital, Harvard Medical SchoolBoston, Massachusetts | Cognitive-Behavioral Therapy, Adult Outpatient Psychotherapy  |
| Supervisors: Drs. Angela Fang, Ann Chosak, Jessica Rasmussen, Jeanne Fama, Susan Sprich, Sabine Wilhelm• Conducted clinical intakes with a range of presenting problems• Treated clients with a range of presenting problems including anxiety, depression, eating, and obsessive-compulsive disorders using cognitive-behavioral therapy. |
| January 2019-June 2019 | Massachusetts General Hospital, Harvard Medical SchoolBoston, Massachusetts | Dialectical Behavior Therapy Group, Adult Outpatient Psychotherapy  |
| Supervisors: Drs. Michelle Jacobo, Jonah Cohen• Reviewed patient progress in team rounds.• Lead group therapy mindfulness exercises and co-lead skills modules. |
| July 2018-December 2018 | Massachusetts General Hospital, Harvard Medical SchoolBoston, Massachusetts | Inpatient Psychiatry Service |
| Supervisor: Dr. Michelle B. Stein• Attended and participated in team-rounds on a weekly basis, contributing to the assessment, case conceptualization, and treatment planning of inpatient clients.• Conducted brief individual psychotherapy and co-led brief skills-based psychotherapy with inpatient clients on a weekly basis. |
| May 2017-June 2018 | The Pennsylvania State University Psychology Clinic,University Park, Pennsylvania | Clinical Supervisor |
| Supervisor: Dr. Sandy Testa• Supervised three therapists individually seeing clients with principal diagnoses of anxiety and depressive disorders. • Reviewed videotapes of psychotherapy sessions, aiding in the case conceptualization and clinical intervention of clients. |
| August 2015-May 2017 | The Pennsylvania State University Psychology Clinic,University Park, Pennsylvania | Clinical Supervisor, Cognitive-Behavioral Therapy |
| Supervisor: Dr. Michelle G. Newman• Co-supervised six therapists who treated a total of fifteen-clients per week on average during weekly three-hour group supervision and bi-weekly one-hour supervision meetings.• Led group discussions of empirical literature related to cognitive-behavioral therapy, provided feedback on supervisees’ cases, and instructed therapists on the use of manualized cognitive-behavioral therapy. • Reviewed supervisees’ therapy tapes bi-weekly and provided feedback on supervisees’ strengths and weaknesses.• Supervised cases with principal mood, anxiety, posttraumatic stress, eating, and personality disorders. |
| August 2011-July 2018 | The Pennsylvania State University Psychology Clinic,University Park, Pennsylvania | Anxiety Clinic |
| Supervisor: Drs. Michelle G. Newman, Kristen Smith-Simon, Sandy Testa, Brian Rabian• Attended weekly case and research presentations on the role of anxiety, obsessive-compulsive, and posttraumatic stress disorders in adults and children. • Participated in clinical presentations on differential diagnosis, hierarchy construction, medication use, sleep paralysis, and many other specialized topics.• Conducted clinical interviews for pre and post assessments.• Periodically conducted therapy treating primary anxiety disorders. |
| July 2014-July 2016 | The Pennsylvania State University Psychology Clinic,University Park, Pennsylvania | Clinical Assistantship |
| Supervisor: Drs. Alissa Yamasaki and Sandy Testa• Participated in weekly two-hour group supervision of cases and didactics on targeted clinical issues (suicidality, homicidal ideation, complex trauma, ethics) and one-hour weekly supervision. • Visited community resources that interfaced with the community mental health clinic, including an inpatient unit and occupational and rehabilitative community resources. • Treated clients utilizing an integrative framework with a primary emphasis on behavioral and interpersonal psychotherapy approaches.• Conducted monthly diagnostic assessments for one year.• Maintained a six-client caseload of moderately to severely impaired clients with principal psychosis, posttraumatic stress disorder, personality disorders, and mood disorders. |
| May 2014-May 2015 | The Pennsylvania State University Psychology Clinic,University Park, Pennsylvania | Neuropsychological Assessment Practicum |
| Supervisor: Drs. Peter Arnett, Michael Kiel, and Michael Shapiro• Participated in three-hour weekly meetings to discuss case conceptualization of recent neuropsychological assessments and received individual supervision as needed. • Received didactics in test administration, test scoring, battery selection, and report writing. • Prepared integrated reports interpreting neuropsychological tests, interviews, symptom-assessments, and personality assessments to examine differential diagnoses and academic accommodation status (e.g. attention-deficit hyperactivity disorder, dyslexia, and traumatic brain injuries).  |
| May 2013-May 2014 | The Pennsylvania State University Psychology Clinic,University Park, Pennsylvania | Cognitive-Behavioral Therapy Practicum |
| Supervisor: Dr. Michelle G. Newman• Participated in three-hour weekly meetings and one-hour individual supervision, which focused on cognitive-behavioral assessment and psychotherapy techniques, including: self-monitoring, hierarchy construction, progressive muscle relaxation, self-control desensitization, interoceptive exposure, prolonged exposure, behavioral activation, activity planning, cognitive restructuring, and culturally adapted psychotherapy.• Conducted monthly case presentations regarding ongoing clients within group supervision.• Conducted monthly diagnostic assessments.• Maintained a three-client caseload of clients meeting diagnostic criteria for a range of mood, anxiety, posttraumatic stress, and personality disorders. |
| May 2013-August 2013 | The Pennsylvania State University Psychology Clinic,University Park, Pennsylvania | Integrative Psychotherapy Practicum |
| Supervisor: Dr. Jeff Hayes• Participated in three-hour weekly meetings and one-hour individual supervision, which focused on integrative psychotherapy spanning feminist, interpersonal, cognitive-behavioral, and psychodynamic frameworks.• Conducted monthly diagnostic assessments.• Maintained a three-client caseload of clients meeting diagnostic criteria for a range of personality disorders, and mood disorders. |
| August 2012-May 2013 | The Pennsylvania State University Psychology Clinic,University Park, Pennsylvania | Contemporary Psychodynamic Psychotherapy Practicum |
| Supervisor: Dr. Aaron Pincus• Participated in three-hour weekly meetings and one-hour individual supervision, which focused on contemporary psychodynamic diagnosis, case formulation, and psychotherapy within object-relations (Transference-Focused Psychotherapy) and interpersonal frameworks.• Conducted a case presentation of a client with narcissistic personality disorder. • Conducted monthly diagnostic assessments.• Maintained a three-client caseload of clients meeting diagnostic criteria for a range of personality disorders and other comorbid conditions. |
| May 2012-August 2012 | The Pennsylvania State University Psychology Clinic,University Park, Pennsylvania | Introductory Clinical Methods Practicum |
| Supervisor: Dr. Michael Wolff• Participated in two-hour weekly meetings and one-hour individual supervision, which stressed humanistic treatment techniques, utilizing empathic responses, and motivational interviewing. • Conducted monthly diagnostic assessments.• Maintained a two-client caseload of mood and personality disorders. |
| May 2009-January 2010 | Parc ProvenceCreve Coeur, MO | Activity Specialist, Dementia Care Facility |
| Supervisors: Multiple supervisors, depending on day• Worked exclusively with residents affected by dementia.• Initiated treatment through the social philosophy of dementia treatment.• Led activities for dementia residents. |
| May 2009-September 2009 | Alternatives to Living in Violent Environments (ALIVE), St. Louis, MO | Clinical Intern, Assessing and Triaging Crisis Services and Intakes |
| Supervisors: Jennifer Gadsky, M.S.W., LCSW; Katie Robinson, M.S.E.• Conducted clinical intakes assessing abuse and interpartner violence, wrote intake reports, and referred to counselor.• Conducted crisis interviews over phone and in-person, assessing and providing services for those actively and recently experiencing interpartner violence.• Served as court advocate by attending orders of protection hearings with clients.• Coordinated getting clients into shelters, removing clients from actively abusive situations, following up with clients, and bringing clients food/clothing as the Nights of Safety coordinator. |
| June 2009 | Camp Erin by Annie’s Hope the Bereavement Center for Kids, St. Louis, MO | Counselor for Childhood Bereavement |
| Supervisors: Multiple supervisors, depending on day• Counseled teens suffering from recent losses.• Utilized behavioral activation including exercise and activity scheduling.• Conducted group therapy focused on processing loss. |

1. **Teaching Activities**

**A. UNDERGRADUATE EDUCATION:**

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| **DATES** | **INSTITUTION** | **NAME OF COURSE/ACTIVITY** | **ROLE** | **FREQUENCY** | **COURSE SIZE** |
| Spring 2020 | Dartmouth College | PSYC 50.01 Neuroscience of Mental Illness | Invited Lecturer | One invited lecture | 25 students |
| Fall 2020 | Dartmouth College | CS 89.20/189: Data Science for Health | Invited Lecturer | One invited lecture | 25 students |
| Spring 2020 | Dartmouth College | CS 69/169: Applications of Data Science | Invited Lecturer | One invited lecture | 25 students |
| Fall 2017; Spring 2018 | Pennsylvania State University | PSYCH 481: Introduction to Clinical Psychology  | Instructor | Three times per week | 65 students |
| Fall 2016; Spring 2017 | Pennsylvania State University | PSYCH 238: Introduction to Personality Psychology | Instructor | Two times per week | 100 students |
| Summer 2016 | Pennsylvania State University | PSYCH 301W: Basic Research Methods in Psychology | Instructor | Online | 20 students |
| Fall 2015 | Penn State Altoona | PSYCH 270: Intro to Abnormal Psychology | Invited Lecturer | One invited lecture | 25 students |
| Fall 2015 | Penn State Altoona | PSYCH 470 Advanced Abnormal Psychology | Invited Lecturer | One invited lecture | 25 students |
| Fall 2015; Spring 2016 | Pennsylvania State University | PSYCH 423: Social Psychology of Interpersonal/Intergroup Relationships | Teaching Assistant | Twice per week | 30 students |
| Fall 2014; Spring 2015 | Pennsylvania State University | PSYCH 477 Mental Health Practicum with Children | Teaching Assistant | Twice per week | 20 students |
| Fall 2013; Spring 2014 | Pennsylvania State University | PSYCH 301W: Basic Research Methods in Psychology | Lab Instructor | Twice per week | 100 students |
| Spring 2013 | Pennsylvania State University | PSYCH 238 Introduction to Personality Psychology | Teaching Assistant | Twice per week | 100 students |
| Fall 2012 | Pennsylvania State University | PSYCH 105: Psychology as a Science and Profession | Teaching Assistant | Twice per week | 200 students |
| Winter 2008; Winter 2009; Winter 2010 | Truman State University | PSYC 499 Hypnosis | Teaching Assistant | Daily | 20 students |
| Winter 2008; Winter 2009; Winter 2010 | Truman State University | PSYC 499 Psychology of Mass Media | Teaching Assistant | Daily | 20 students |

**B. GRADUATE EDUCATION:**

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| **DATES** | **INSTITUTION** | **NAME OF COURSE/ACTIVITY** | **ROLE** | **FREQUENCY** | **COURSE SIZE** |
| Fall 2021; Fall 2020 | Dartmouth College | QBS 126: Analysis of Densely Collected Longitudinal Data  | Instructor  | Twice per week | 10 students |
| Spring 2020; Spring 2021 | Dartmouth College | QBS 270: Quantitative Biomedical Sciences Journal Club  | Instructor (1 of 2) | Once per week | 10 students |
| Spring 2020 | Dartmouth College | QBS 177: Algorithms in Biomedical Data Science. | Invited Lecturer | One invited lecture | 20 students |

1. **Primary Research Advising**

**A. GRADUATE STUDENTS:**

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| **DATES** | **INSTITUTION** | **ADVISEE/MENTEE** | **PROGRAM** |
| Fall 2019 – Current | Dartmouth College | Matthew Nemesure | PhD Advisee; PhD Program in Quantitative Biomedical Sciences |
| Winter 2020 – Current | Dartmouth College | Damien Lekkas | PhD Advisee; PhD Program in Quantitative Biomedical Sciences |
| Spring 2020 – Current | Dartmouth College | George Price | PhD Advisee; PhD Program in Quantitative Biomedical Sciences |
| Fall 2019 – Winter 2020 | Dartmouth College | Lili Liu | Capstone Advisor; MS Program in Quantitative Biomedical Sciences |
| Fall 2019  | Dartmouth College | Shuai Jiang | Rotation; PhD Program in Quantitative Biomedical Sciences |

**B. POSTDOCTORAL FELLOWS AND RESIDENTS**

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| **DATES** | **INSTITUTION** | **ADVISEE/MENTEE** | **PROGRAM** |
| Fall 2019 – Current | Dartmouth College; Dartmouth Hitchcock Medical Center | Michael Heinz | Postdoctoral Fellow (Dartmouth College); Psychiatry Resident; (Dartmouth Hitchcock Medical Center) |
| Fall 2020 – Current | Dartmouth College | Robert Klein | Postdoctoral Fellow; National Institute of Drug Abuse T32 |

1. **Advising/Mentoring (other)**

**A. UNDERGRADUATE STUDENTS:**

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| **DATES** | **INSTITUTION** | **ADVISEE/MENTEE** | **PROGRAM** |
| Fall 2022 | Dartmouth College | Abigail Salzhauer | Undergraduate Research Assistantship at Dartmouth (URAD |
| Fall 2021; Fall 2022 | Dartmouth College | Chloe Park | Undergraduate Research Assistantship at Dartmouth (URAD |
| Fall 2022; Summer 2022 | Dartmouth College | Jessica Meikle | Undergraduate Research Assistantship at Dartmouth (URAD) |
| Summer 2022 | Dartmouth College | Rachel Zhang | Undergraduate Research Assistantship at Dartmouth (URAD) |
| Summer 2022 | Dartmouth College | Isabel Hillman | Undergraduate Research Assistantship at Dartmouth (URAD) |
| Spring 2022 | Dartmouth College | Anastasia Bryan | Undergraduate Research Assistantship at Dartmouth (URAD) |
| Spring 2022 | Dartmouth College | Nitya Agarwala | Undergraduate Research Assistantship at Dartmouth (URAD) |
| Spring 2022 | Dartmouth College | Brianna Trudeau | Undergraduate Research Assistantship at Dartmouth (URAD) |
| Spring 2022 | Dartmouth College | Caroline Hall | Undergraduate Research Assistantship at Dartmouth (URAD) |
| Fall 2021 | Dartmouth College | Ryan Wu | Undergraduate Research Assistantship at Dartmouth (URAD) |
| Fall 2021 | Dartmouth College | Elizabeth Crocker | Undergraduate Research Assistantship at Dartmouth (URAD) |
| Spring 2022; Winter 2021; Spring 2021; Spring 2020 | Dartmouth College | Veronica Abreu | Undergraduate Advising and Research (UGAR); Sophomore Research Scholarship, First Term; Second Term |
| Spring 2021 | Dartmouth College | Jimena Abejon Fuertes | Undergraduate Advising and Research (UGAR); Junior Research Scholarship, First Term |
| Spring 2021 | Dartmouth College | Russell Rapaport | Undergraduate Advising and Research (UGAR); Junior Research Scholarship, Second Term |
| Summer 2020; Spring 2021 | Dartmouth College | Chaeeun Song | Undergraduate Advising and Research (UGAR); Sophomore Research Scholarship, First Term; Second Term |
| Fall 2020; Spring 2021 | Dartmouth College | Joseph Gyorda | Undergraduate Advising and Research (UGAR); Junior Research Scholarship, First Term; Third Term |
| Fall 2020; Spring 2021 | Dartmouth College | John Keane | Undergraduate Advising and Research (UGAR); Junior Research Scholarship, Third Term |
| Spring 2021; Fall 2021 | Dartmouth College | Piper Stacey | Undergraduate Advising and Research (UGAR); Sophomore Research Scholarship, Second Term; Undergraduate Research Assistantship at Dartmouth (URAD) |
| Spring 2021; Fall 2021 | Dartmouth College | Camilla Lee | Undergraduate Advising and Research (UGAR); Junior Research Scholarship, First Term; Undergraduate Research Assistantship at Dartmouth |
| Fall 2020; Spring 2021 | Dartmouth College | Nhi Nguyen | Undergraduate Advising and Research (UGAR); Sophomore Research Scholarship, First Term; Third Term |
| Fall 2020 | Dartmouth College | Zoe Wortzman | Undergraduate Advising and Research (UGAR); Junior Research Scholarship, Second Term |
| Fall 2020; Summer 2020 | Dartmouth College | Jason McFadden | Undergraduate Advising and Research (UGAR); Presidential Scholarship, First Term; Second Term |
| Fall 2020 | Dartmouth College | Emily Appenzeller | Undergraduate Advising and Research (UGAR); Junior Research Scholarship, First Term |
| Fall 2020; Winter 2020 | Dartmouth College | William Chen | Undergraduate Advising and Research (UGAR); Junior Research Scholarship, First Term; Leave Term Scholarship |
| Summer 2020; Fall 2020 | Dartmouth College | Thomas Lingard | Undergraduate Advising and Research (UGAR); Junior Research Scholarship, First Term; Second Term |
| Summer 2020 | Dartmouth College | Nina Paripovic | Undergraduate Advising and Research (UGAR); Junior Research Scholarship, First Term |
| Spring 2020 | Dartmouth College | Henry Jin | Undergraduate Advising and Research (UGAR) Scholarship |
| Winter 2020; Spring 2020 | Dartmouth College | Raphael Huang | Undergraduate Advising and Research (UGAR); Junior Research Scholarship, First Term |
| Winter 2020; Spring 2020 | Dartmouth College | Alexandra Limb | Undergraduate Advising and Research (UGAR); Junior Research Scholarship, First Term, Second Term |
| Spring 2020; Winter 2020 | Dartmouth College | Mia Seiner | Undergraduate Advising and Research (UGAR); Sophomore Research Scholarship, Second Term |
| Winter 2020 | Dartmouth College | Colin Goodbred | Undergraduate Advising and Research (UGAR); Leave Term Grant |
| Spring 2019; Winter 2020; Spring 2020 | Dartmouth College | Minkeun Song | Undergraduate Advising and Research (UGAR); Junior Research Scholarship, First Term; Second Term; Third Term |

**B. GRADUATE STUDENTS:**

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| **DATES** | **INSTITUTION** | **ADVISEE/MENTEE** | **PROGRAM** |
| Fall 2019 – Spring 2021 | Dartmouth College | Alex daSilva | PhD Dissertation Committee; Psychology and Brain Sciences |
| Fall 2019-Spring 2021 | Dartmouth College | Curtis Peterson | PhD Dissertation Committee; The Dartmouth Institute |
| Fall 2019-Current | Dartmouth College | Tiankang Xie | Qualification Committee and Dissertation Committee; Quantitative Biomedical Sciences |

1. **Research Activities (reverse chronological order)**

**A1. SPONSORED ACTIVITY (GRANTS AND CONTRACTS) WITH SIGNIFICANT CONTRIBUTION TO CRAFTING AND WRITING OF PROPOSAL**

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| **DATES** | **PROJECT TITLE/NUMBER** | **ROLE/ %EFFORT** | **SPONSOR** | **ANNUAL DIRECT COSTS**  |
| 07/01/2021-06/30/2026  | Technology-Based Treatments for Substance Use Disorders. P30 Center of Excellence grant (5P30DA029926-11) | Co-Investigator (PI Marsch), 15% Effort  | National Institute on Drug Abuse (NIDA) | $791,611 |
| 8/06/2020-5/31/2025 | Personalized Deep Learning Models of Rapid Changes in Major Depressive Disorder Symptoms using Passive Sensor Data from Smartphones and Wearable Devices(R01 MH123482) | Principal Investigator, 35% Effort | National institute of Mental Health (NIMH); National Institute of General Medical Sciences (NIGMS) | $ 493,784 |
| 01/01/2020-12/31/2021 | Digital Intervention to Treat Anxiety and Depression among Persons Receiving Treatment for Opioid Use Disorder (P30 Pilot; P30DA029926) | Principal Investigator, 0% Effort | National Institute on Drug Abuse (NIDA) | $13,170 |
| 08/23/2018-05/31/2023 | Harnessing Mobile Technology to Reduce Mental Health Disorders in College Populations (R01MH115128) | Consultant (PI Wilfley) | National Institute of Mental Health (NIMH) | $653,429 |
| 2010-2011 | Strengths and Weaknesses in Test-Taking: In what ways do Anxiety and Impulsivity Impact Negative Test Performance? | Principal Investigator | Psi Chi  | $850 |
| 2010 | Strengths and Weaknesses in Test-Taking: In what ways do Anxiety and Impulsivity Impair Test Performance? | Principal Investigator | TruScholars | $4,500 |
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**A2. OTHER SPONSORED ACTIVITY (GRANTS AND CONTRACTS) WITHOUT SIGNIFICANT CONTRIBUTION TO WRITING OF PROPOSAL**

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| **DATES** | **PROJECT TITLE/NUMBER** | **ROLE/ %EFFORT** | **SPONSOR** | **ANNUAL DIRECT COSTS**  |
| 9/1/2015-2/28/2025 | Northeast Node of the National Drug Abuse Clinical Trials Network  | Co-Investigator (PI Marsch), 10% Effort  | National Institute of Drug Abuse (NIDA) | $726,374 |
| 2020, 2021, 2022 | Development and Evaluation of Digital Assessments and Treatments for Anxiety an Depression | Principal Investigator, 0% Effort | Frank and Myra Weiser Scholar in the Neurosciences, Geisel School of Medicine, Dartmouth College | $25,000 |
| 01/01/2020-12/31/2020 | Iterative Effects of Episodic Future Thinking on Delay Discounting and Cannabis Use (P30 Pilot; P30DA029926) | Co-Investigator (PI Sofis), 0% Effort | National Institute on Drug Abuse (NIDA) | $15,700 |
| 01/01/2020-12/31/2020 | Evaluation of an Ecological Momentary Intervention of Implementation Intentions Delivered by Text Message to Reduce Cigarette Smoking (P30 Pilot; P30DA029926) | Co-Investigator (PI Lemley), 0% Effort | National Institute on Drug Abuse (NIDA) | $17,200 |
| 2018-2020 | Automating Coaching to Facilitate Dissemination of an Effective Prevention Program | Consultant (PI Taylor)  | National Eating Disorders Association |  |
| 2019 | Advance the knowledge and treatment of Obsessive Compulsive Disorder by understanding the causes, neurobiological mechanisms, and clinical manifestations | Postdoctoral Fellow | Lee Baer fund for OCD Research and Teaching |  |

1. **Program Development**

I serve as the Deputy Director the Treatment Development and Evaluation Core of Dartmouth’s Center for Technology and Behavioral Health, a P30 “Center of Excellence Grant” from the National Institute on Drug Abuse, on which I serve as co-Investigator.

1. **Entrepreneurial Activities**

N/A

1. **Major Committee Assignments, inclusive of Professional Societies**

**A. National/International**

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| **DATES** | **COMMITTEE** | **ROLE** | **INSTITUTION** |
| 2021 | UK Research and Innovation | Grant Reviewer | Medical Research Council, United Kingdom |
| 2021 | 2021 Research Grant Awards | Grant Reviewer | International Obsessive Compulsive Disorder Foundation (IOCDF) |

**B. REGIONAL**

N/A

**C. INSTITUTIONAL**

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| **DATES** | **COMMITTEE** | **ROLE** | **INSTITUTION** |
| 2019 | Precision Health Program | Grant Reviewer | University of Michigan  |
| 2020; 2021 | Quantitative Biomedical Sciences  | MS Admissions Committee | Dartmouth College |

1. **Editorial Boards**

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| **DATES** | **JOURNAL** | **ROLE** |
| 2020-Present | Journal of Technology in Behavioral Science | Editorial Board |
| 2021 | Sensors | Guest Editor “Passive Sensing for Health” |
| 2021 | Frontiers in Psychology | Lead Guest Editor, Organized Topic: “Computational Modeling of Passively Collected Data to Predict Psychopathology” |
| 2020 | SAGE Open | Action Editor |

1. **Journal Referee Activity**

Publons Profile of Peer-Review

<https://publons.com/researcher/1516519/nicholas-c-jacobson/peer-review/>

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| --- | --- |
| **JOURNAL** | **NUMBER OF REVIEWS** |
| Assessment | 13 |
| Journal of Medical Internet Research | 9 |
| Npj Digital Medicine | 5 |
| Journal of Technology in Behavioral Science | 4 |
| Clinical Psychological Science | 4 |
| The Lancet Psychiatry | 4 |
| Journal of Affective Disorders | 4 |
| Aging & Mental Health | 4 |
| Journal of Consulting and Clinical Psychology | 4 |
| BMC Medicine | 3 |
| Plos One | 3 |
| Behaviour Research and Therapy | 2 |
| Journal of Anxiety Disorders | 2 |
| Psychological Medicine | 2 |
| BJPsych Open | 2 |
| Science Advances | 2 |
| Personalized Medicine | 2 |
| JMIR MHealth and UHealth | 2 |
| The Journal of Nervous and Mental Disease | 2 |
| Journal of Autism and Developmental Disorders | 2 |
| Clinical Psychologist | 2 |
| EClinicalMedicine | 2 |
| Health Psychology | 2 |
| British Journal of Clinical Psychology | 2 |
| Psychotherapy Research | 2 |
| JAMA Psychiatry | 2 |
| Emotion | 1 |
| Sensors | 1 |
| Stress and Health | 1 |
| Perspectives on Psychological Science | 1 |
| Clinical Psychology & Psychotherapy | 1 |
| Explore: The Journal of Science and Healing | 1 |
| New England Journal of Medicine | 1 |
| Motivation and Emotion | 1 |
| Journal of Dual Diagnosis | 1 |
| SAGE Open | 1 |

1. **Awards and Honors**

**A. RESEARCH AWARDS**

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| **dates** | **award** |
| Fall 2019 | International Travel Award, Society for Ambulatory Assessment |
| Fall 2018 | Alies Muskin Career Development Leadership Program Award from the Anxiety and Depression Association of America (ADAA) |
| Spring 2018  | Federation of Associations in Behavioral and Brain Sciences (FABBS) Doctoral Dissertation Research Excellence Award to acknowledge and honor graduate student scientists who have conducted doctoral dissertation research of superior scientific quality and broader societal impact. |
| Spring 2018  | College of the Liberal Arts Raymond Lombra Graduate Student Award for the Excellence in Research in the Social Sciences, Pennsylvania State University |
| Spring 2018  | Best Research Paper Award in Psychology, Pennsylvania State University |
| Spring 2014 | Marty Murphy Award for Excellence in Psychology, Based on Excellence in Research and Exceptional Collegiality, Pennsylvania State University |
| Spring 2014 | Honorable Mention, Society for Personality Assessment for Presenting “Using an ecological momentary assessment approach to examine the relationship between neuroticism and conscientiousness and variability in constructive and unconstructive thought processes” |
| Spring 2013 | Honorable Mention, Association for the Psychological Science Student Caucus Student Research Awards for Presenting “The Temporal Relationship Between Anxiety and Depression: A Meta-Analysis” |
| Spring 2012  | Honorable Mention, Anne Anastasi General Psychology Graduate Student Award by the American Psychological Association’s First Division |
| Fall 2011 | Best Student Poster Award from Anxiety Special Interest Group for presenting “Evaluating Quantity and Quality of Worrisome and Intrusive Thoughts and their Triggers: An Ecological Momentary Assessment Approach” |
| Spring 2011 | Clark L. Hull Award for Scientific Excellence in Writing on Experimental Hypnosis from the American Journal of Clinical Hypnosis |
| Spring 2011 | Regional Research Award from Psi Chi for presenting “The Effectiveness of Cognitive-Behavioral Therapy in Reducing Anxiety among those with Autism Spectrum Disorders: A Meta-Analysis” |
| Spring 2011 | Best Oral Presentation from Psi Chi Annual Research Symposium for presenting “Learning in Hypnosis: Applications to Academic Performance” |
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**B. HONORS**

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| **dates** | **award** |
| Fall 2011  | Pennsylvania State University Graduate Fellowship (93 awarded of the approximately 1,700 graduate students) |
| Spring 2011 | President’s Certificate of Recognition for Outstanding Academic Achievement Awarded by Truman State University |
| Fall 2009 | APA Student Affiliate Membership Awarded by Truman State University  |
| Fall 2009  | President’s List (4.0/4.0 GPA for Fall 2008, Spring 2009, Fall 2009, Fall 2010, and Spring 2011 semesters at Truman State University)  |

1. **Invited Presentations**

\* Denotes current or former students

Underline denotes first or last author

**a. iNDIVIDUALLY INVITED PRESENTATIONS**

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| **nUMBER** | **PRESENTATION** |
| 18 | **Jacobson, N.C.** (2022, September). Invited presentation presented at the University of Southern California, Neuroimaging and Informatics Program, Hosted Online. |
| 17 | **Jacobson, N.C.** (2022, September). Invited presentation presented at the Center for Depression, Anxiety and Stress, McLean Hospital, Hosted Online. |
| 16 | **Jacobson, N.C.** (2022, June). Invited plenary session presented at the International Conference on Eating Disorders, Hosted Online. |
| 15 | **Jacobson, N.C.** (2022, May). Oral presentation presented at Open Digital Health, Hosted Online. |
| 14 | **Jacobson, N.C.** (2022, May). Oral presentation presented at the Expert Meeting and Special Issue Bridging Social Sciences and Computational Methods, Amsterdam, The Netherlands. |
| 13  | **Jacobson, N.C.** (2022, April). Oral presentation presented Neural Engineering & Translation Labs, at University of California San Diego, California.  |
| 12 | **Jacobson, N.C.** (2022, April). Oral presentation presented the Psychiatry Grand Rounds, New York Medical College, New York.  |
| 11 | **Jacobson, N.C.** (2021, December). Oral presentation presented the Computational and Methodological Statistics (CMStatistics) Conference, King's College, London, United Kingdom. |
| 10 | **Jacobson, N.C.** (2021, November). Oral presentation presented the National Eating Disorders Association Convention, Hosted Online. |
| 9 | **Jacobson, N.C.** (2021, September). Oral presentation presented the Treatment Selection Idea Lab Conference, University of Trier, Germany. |
| 8 | **Jacobson, N.C.** (2021, April). Oral presentation presented the Department of Psychology and Brain Sciences, Dartmouth College. |
| 7 | **Jacobson, N.C.** (2021, April). Oral presentation presented the Centre for Connected Health, University of Melbourne. |
| 6 | **Jacobson, N.C.** (2021, February). Oral presentation presented the Grand Rounds, Geisel School of Medicine, Dartmouth College. |
| 5 | **Jacobson, N.C.** (2021, February). Oral presentation presented at TecHealth Center at University of South Carolina. |
| 4 | **Jacobson, N.C.** (2021, February). Oral presentation presented at the Department of Psychological and Brain Sciences, University of Louisville. Supported by an NIH R15. |
| 3 | **Jacobson, N.C.** (2020, November). Oral presentation presented at Clinical Research Methods and Statistics SIG, Association for Behavioral and Cognitive Therapies (ABCT) in November 2020 Philadelphia, PA (delivered virtually due to COVID-19). |
| 2 | **Jacobson, N.C.** (2020, October). Oral presentation presented the University of Virginia Psychology Department. |
| 1 | **Jacobson, N.C.** (2020, October). Using passive sensing to predict psychopathology across multiple time scales. Oral symposium presented at Technology in Psychiatry Summit in October 2020 Boston, MA (delivered virtually due to COVID-19). |

**B. CONFERENCE PRESENTATIONS**

**B1. international conference presentations**

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| **nUMBER** | **PRESENTATION** |
| 15 | **Jacobson, N.C**. (2022, September). *Impact of Online Mental Health Screening Tools on Help-Seeking, Care Receipt, and Suicidal Ideation and Suicidal Intent: Evidence from Internet Search Behavior in a Large U.S. Cohort*. Oral symposium presented at International Society for Research on Internet Interventions, Pittsburgh, Pennsylvania. |
| 14 | **Jacobson, N.C**. (2022, June). *Idiographic Digital Phenotyping: Using Passively Collected Smartphone Sensors and Personalized Deep Learning Models to Predict Momentary Anxiety Symptoms Among Persons with Anxiety Disorders*. Oral symposium presented at Society for Ambulatory Assessment in June 2022 Online. |
| 13 | **Jacobson, N.C**. & Liu, L.,\* (2021, May). *Uncovering When Dynamic Variables Optimally Predict One Another in Intensive Longitudinal Data using Novel Personalized Modeling Strategies*. Oral symposium presented at Society for Ambulatory Assessment in May 2021 Online. |
| 12 | **Jacobson, N.C**. (2021, March). *Designing a Generative Mental Health Chatbot using Artificial Intelligence*. Oral symposium presented at Society of Behavioral Medicine in March 2021 Online. |
| 11 | **Jacobson, N.C**. (2021, March). *Using Artificial Intelligence to Predict the Level of Personality Functioning based on Life History Narratives*. Oral symposium presented at Society of Personality Assessment in March 2021 Online. |
| 10 | **Jacobson, N.C**. (2021, March). *Using Machine Learning and Personality Traits to Understand the Predictability of Day-to-Day Affective Dynamics*. Oral symposium presented at Society of Personality Assessment in March 2021: Online.  |
| 9 | **Jacobson, N.C.** (2020, January). *It’s Time to Ask When: Investigating the Timing of Dynamics in Intensive Longitudinal Data*. Oral symposium presented at Society of Ambulatory Assessment (SAA) in January 2020 Melbourne, Australia.  |
| 8 | **Jacobson, N.C.** (2020, January). *Compliance Thresholds in Intensive Longitudinal Data: Worse than Listwise Deletion: Call for Action*. Oral symposium presented at Society of Ambulatory Assessment (SAA) in January 2020 Melbourne, Australia.  |
| 7 | Newman, M. G., & LaFreniere, L. S. & **Jacobson, N. C.** (2016, June). *Peak and trajectories of change in relaxation induced anxiety as predictors of outcome from CBT for GAD*. Oral symposium presented at the 46th Annual Meeting of the Society for Psychotherapy Research, Jerusalem, Israel. Chairs: Solomonov, N. and McCarthy, K. S. |
| 6 | Roche, M., **Jacobson, N. C.** & Pincus, A. (2015, August) *Examining the Static and Dynamic features of personality dysfunction in the Alternative Model of DSM-5.* Oral symposium submitted to the American Psychological Association in 2015 at Toronto, Canada. |
| 5 | **Jacobson, N. C.,** Newman, M. G., & Goldfried, M. R. (2015, June). *Clinical Feedback about Empirically Supported Treatments for Obsessive-Compulsive Disorder*. Oral presentation at the Society for Psychotherapy Research in June 2015 at Philadelphia, PA.  |
| 4 | Newman, M. G., Castonguay, L.G., & **Jacobson, N. C.** (2015, June). *Attachment as a moderator of CBT for GAD with and without interpersonal and emotional processing techniques*. Oral presentation at the Society for Psychotherapy Research in June 2015 at Philadelphia, PA.  |
| 3 | **Jacobson, N. C.,** Chow, S., & Newman, M. G., (2015, June). *The Differential Time-Varying Effect Model (DTVEM): Identifying Optimal Time Lags in Intensive Longitudinal Data.* Paper presented at the biennial conference of the Society for Ambulatory Assessment, University Park, PA. |
| 2 | Ji, L.,Chow, S-M., **Jacobson, N.C.,** Schermerhorn, A.C. & Cummings, E.M. (2015, June). *Handling missing data in the modeling of ambulatory assessment data.*Paper presented at the biennial conference of the Society for Ambulatory Assessment, University Park, PA. |
| 1 | **Jacobson, N. C.,** Newman, M. G., & Goldfried, M. R. (2013, June). *Clinical Experiences in Conducting Empirically Supported Treatments: Obsessive-Compulsive Disorder*. Oral presentation at the Society for the Exploration of Psychotherapy Integration in June 2013 at Barcelona, Spain.  |
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**b2. national conference presentations**

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| **nUMBER** | **PRESENTATION** |
| 60 | **Jacobson, N.C.** (2022, November). *Flattening the Suicidal Ideation Curve: COVID-19 Stay-at-Home Orders Are Associated With Immediate Changes in Suicidal Search Behavior in the United States*. Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in November, 2022 New York, NY. |
| 59 | **Jacobson, N.C.** (2022, March). *Digital Biomarkers of Social Anxiety Severity:Digital Phenotyping Using Passive Smartphone Sensors*. Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in March, 2022 Denver, CO. |
| 58 | **Jacobson, N.C.** (2022, March). *Idiographic Digital Phenotyping: Using Passively Collected Smartphone Sensors and Personalized Deep Learning Models to Predict Momentary Anxiety Symptoms Among Persons with Anxiety Disorders*. Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in March, 2022 Denver, CO. |
| 57 | **Jacobson, N.C.** & Liu, L.\* (2021, November). *Using Wearable Movement Data Captured in Daily Life and Deep Learning to Predict Deterioration in Anxiety Disorders Across 17 18 Years*. Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in November, 2021 Online. |
| 56 | **Jacobson, N.C.** & Liu, L.\* (2021, November). *Uncovering When Dynamic Variables Optimally Predict One Another in Intensive Longitudinal Data using Novel Personalized Modeling Strategies*. Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in November, 2021 Online. |
| 55 | **Jacobson, N.C.** (2021, October). *Designing a Dynamic Generative Mental Health Chatbot using Artificial Intelligence*. Oral symposium presented at Technology in Psychiatry Summit in October, 2021 Online. |
| 54 | **Jacobson, N.C.** (2021, October). *Using Passive Smartphone and Wearable Sensor Data to Develop Contextualized and Personal Indicators of Anxiety and Posttraumatic Stress Disorders*. Oral symposium presented at Technology in Psychiatry Summit in October, 2021 Online. |
| 53 | **Jacobson, N.C.** (2021, March). *Passively Collected Digital Biomarkers of Worry Severity among Persons Living with HIV*. Oral symposium presented at Anxiety and Depression Association of America (ADAA) in March, 2021 Online. |
| 52 | Nemesure, M.D., Heinz, M.V., Huang, R., & **Jacobson, N.C.** (2020, November). *Predictive Modeling of Psychiatric Illness using Electronic Medical Records and a Novel Machine Learning Approach with Artificial Intelligence*. Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in November 2020 Philadelphia, PA. |
| 51 | **Jacobson, N.C.** (2020, November). *Experiences in Conducting a Large Global Intervention Trial: Recommendations and Lessons Learned*. Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in November 2020 Philadelphia, PA. |
| 50 | Nemsure, M.D\*, Heinz, M. V.\*, Huang, R.\* & **Jacobson, N. C.** (2020, April). *Predictive Modeling of Psychiatric Illness in College Population Using Novel Machine Learning Approach with Artificial Intelligence*. Poster presented at American Psychiatric Association in April 2020 Philadelphia, PA. Note: Conference Cancelled due to COVID-19. |
| 49 | **Jacobson, N.C**. (2020, March). *Passive Sensing of Prediction of Moment-to-Moment Depressed Mood among Persons with Clinical Levels of Depression Sample using Smartphones*. Oral symposium presented at Anxiety and Depression Association of America (ADAA) in March 2020 San Antonio, TX. Chairs: **Jacobson, N.C.** & Summers, B. Note: Conference Cancelled due to COVID-19. |
| 48 | **Jacobson, N.C**. (2020, March). *Passively Collected Digital Biomarkers of Worry Severity among Persons Living with HIV*. Oral symposium presented at Anxiety and Depression Association of America (ADAA) in March 2020 San Antonio, TX. Note: Conference Cancelled due to COVID-19. |
| 47 | **Jacobson, N.C**. (2019, November). *Digital Phenotyping in a Large Sample across the Globe: Passive Digital Biomarkers of Anxiety Depend on the Global Geospatial Context*. Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in November 2019 Atlanta GA. Chairs: **Jacobson, N.C.** & Wilhelm, S. |
| 46 | **Jacobson, N.C**. (2019, November). *Large Global Open Trial of a Personalized Smartphone Intervention: Personalized Feedback Leads to Large Reductions in Anxiety and Depression in a Transdiagnostic Sample*. Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in November 2019 Atlanta GA. Chairs: Frumkin, M. & Rodebaugh, T. |
| 45 | **Jacobson, N.C**. (2019, November). *Objective digital phenotypes of worry severity, pain severity and pain chronicity in persons living with HIV*. Poster presented at Anxiety Disorders Special Interest Group: Association for Behavioral and Cognitive Therapies (ABCT) in November 2019 Atlanta GA. |
| 44 | **Jacobson, N. C.,** Weingarden, H., & Wilhelm, S. (2019, March). *Digital Biomarkers of Mood Disorders and Symptom Change*. Poster presented at Anxiety and Depression Association of America (ADAA) in March 2019 Chicago, IL. |
| 43 | **Jacobson, N. C**. & Newman, M.G. (2018, November). *Bayesian Generalized Additive Models: Investigating the Non-Linear Relationships among Clinical Anxiety, Clinical Depression, and Momentary Affect in Daily Life*. Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in November 2018 Washington, DC. Chair: De Nadai, A. |
| 42 | **Jacobson, N. C**. & Newman, M.G. (2018, November). *Replicability of Ideographic Models of Psychopathology: Applications to Ideographic Dynamic Factor Models of Affect in a Transdiagnostic Sample*. Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in November 2018 Washington, DC. Chairs: De Nadai, A. & Henderson, C. |
| 41 | **Jacobson, N. C**. & Newman, M.G. (2018, April). *Depression Variability Predicts Later Anxiety for Those with Depressive Disorders*. Oral symposium presented at Anxiety and Depression Association of America (ADAA) in April 2018 Washington, DC. Chairs: Shin, K.E. & Newman, M.G.  |
| 40 | Roche, M.J., Phillips, J., & **Jacobson, N.C.** (March, 2018). Examining the validity of the Level of Personality Functioning Scale across self and observer reports. Oral symposium presented at Society for Personality Assessment Annual Convention, in March 2018 Washington, D.C. Chair: Roche, M.J.  |
| 39 | **Jacobson, N.C.** & Newman, M.G. (2017, November). *Cross-sectional and Longitudinal Associations among Facets of Neuroticism with Anxiety and Depressive Disorders*. Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in November 2017 San Diego, CA. Chair: Khazanov G. K.  |
| 38 | **Jacobson, N.C.** & Newman, M.G. (2017, November). *Non-Linear Timing Effects on Change: Using the Differential Time-Varying Effect Model to Examine Timing Effects of Interventions.* Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in November 2017 San Diego, CA. Chair: De Nadai, A. S. |
| 37 | **Jacobson, N.C.** & Newman, M.G. (2017, November). *Effect of Depression Variability on Later Anxiety for Those with Depressive Disorders.* Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in November 2017 San Diego, CA. Chairs: Shin, K.E. & Newman, M. G.  |
| 36 | Newman, M. G., LaFreniere, L. S. & **Jacobson, N. C.** (2017, April). *Peak and trajectories of change in relaxation induced anxiety as predictors of outcome from CBT for GAD*. Oral symposium presented to the 37th Annual Meeting of the Anxiety and Depression Association of America, San Francisco, CA. Chairs: LaFreniere, L. S. & Newman, M. G. |
| 35 | Newman, M. G., **Jacobson, N. C.** Szkodny, L. E. & Sliwinski, M. J. (2017, April). Contrast avoidance in daily life. In M. G. Newman (chair), The contrast avoidance model: Reconceptualizing worry in GAD and as a transdiagnostic process. Oral symposium presented to the 37th Annual Meeting of the Anxiety and Depression Association of America, San Francisco, CA. Chair: Newman, M. G. |
| 34 | **Jacobson, N. C.** &Newman, M.G. (2016, October). *Anxiety and Depression as Bidirectional Risk Factors for One Another: A Meta-Analysis of Longitudinal Studies.* Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in October 2016 New York, NY. Chairs: & **Jacobson, N.C.** & Newman, M. G.  |
| 33 | Newman, M. G., **Jacobson, N. C.** and Szkodny, L. E. & Sliwinski, M. J. (2016, October). *Contrast avoidance in daily life. The contrast avoidance model: Reconceptualizing worry in GAD and as a transdiagnostic process*. Oral symposium presented to the 50th Annual Meeting of the Association for Behavioral and Cognitive Therapies, New York, N. Y. Chair: Erickson, T. M. |
| 32 | **Jacobson, N. C.** &Newman, M.G. (2016, April). *Anxiety Disorders as a Longitudinal Risk Factor for Depressive Disorders: A Meta-Analysis.* Oral symposium presented at Anxiety and Depression Association of America (ADAA) in April 2016 Philadelphia, PA. Chairs: **Jacobson, N.C.** & Newman, M. G.  |
| 31 | Lord, K., **Jacobson, N. C.,** & Newman M. G. (2016, April*). Social support in bereaved spouses mediates the relationship between anxiety and depression*. Poster presented at the 36th Annual Convention of the Anxiety and Depression Association of America, Philadelphia, PA. |
| 30 | Lord, K. **Jacobson, N. C.,** & Newman M. G. (2016, April). *Social criticism moderates the relationship between anxiety disorders and depressive disorders 10 years later*. Poster presented at the 36th Annual Convention of the Anxiety and Depression Association of America, Philadelphia, PA. |
| 29 | **Jacobson, N. C.,** Newman, M.G., & Goldfried, M. (2015, November). *Effectiveness, Strengths, and Limitations of Empirically Supported Treatments for Obsessive-Compulsive Disorder based on Feedback from Clinicians.* Oral symposium presented at Association of Behavioral and Cognitive Therapies in November 2015 at Chicago, IL. Chairs: Szkodny, L. & **Jacobson, N.C.** |
| 28 | **Jacobson, N. C.,** Chow, S, & Newman, M.G. (2015, November). *Analyzing All Nonlinear Dynamics in Intensive Longitudinal Data.* Oral symposium presented at Association of Behavioral and Cognitive Therapies in November 2015 at Chicago, IL. Chairs: **Jacobson, N.C.** & Rappaport, L. |
| 27 | **Jacobson, N. C.,** Rappaport, L., Atkins, D., & Rogge, R. (2015, November). *Causal Inference in Clinical Research: Direct Effects and Mediation.* Panel discussion at Association of Behavioral and Cognitive Therapies in November 2015 at Chicago, IL. Chairs: Rappaport, L.  |
| 26 | Newman, M.G., Castonguay, L.G., **Jacobson, N. C.,** & Moore, G.(2015, November). *Adult Attachment as a Moderator of CBT Versus CBT Plus Interpersonal and Emotional Processing Therapy for GAD.* Oral symposium presented at Association of Behavioral and Cognitive Therapies in November 2015 at Chicago, IL. Chairs: Antony, M.  |
| 25 | Reeves, J., Baldwin, S., Moore, M. Rappaport, L. & **Jacobson, N. C.** (2015, November). *Extensions of Structural Equation Modeling to Clinical Research.* Symposium presented at Association of Behavioral and Cognitive Therapies in November 2015 at Chicago, IL. Chairs: Rappaport, L. Discussant: **Jacobson, N. C.**  |
| 24 | LaFreniere, L.S., Newman, M.G., & **Jacobson, N.C.** (2015, November). *Relaxation-induced anxiety: Effects on treatment outcome for generalized anxiety disorder.* Poster presented at Association of Behavioral and Cognitive Therapies in November 2015 at Chicago, IL.  |
| 23 | Mortazavi, A, Soto, J. & **Jacobson,** **N.C.** (2015, February). Positive emotion, drinking motivation, and problematic drinking: A case for cultural variations. Poster presentation at the Society for Personality and Social Psychology in February 2015 at Long Beach, NJ.  |
| 22 | **Jacobson, N. C.,** & Newman, M. G. (2014, November). *Analyzing All Longitudinal Interdependencies in Intensive Longitudinal Data Simultaneously with Person-Specific Models.* Oral symposium accepted to Association of Behavioral and Cognitive Therapies in November 2014 at Philadelphia, PA. Chairs: **Jacobson, N.C.** & Rappaport, L.  |
| 21 | **Jacobson, N. C.,** Laurenceau, J.P, Atkins, D., & Wright;A. G. (2014, November). *Intensive Data: Bringing Intensive Longitudinal Data and Ambulatory Assessment to Clinical Research and Practices.* Panel discussion at Association of Behavioral and Cognitive Therapies in November 2014 at Philadelphia, PA. Chairs: Rappaport, L.  |
| 20 | **Jacobson, N. C.,** Newman, M. G., & Goldfried, M. R. (2014, November). *Clinical Experiences in Conducting Empirically Supported Treatments: Obsessive-Compulsive Disorder*. Poster presentation at the Association of Behavioral and Cognitive Therapies in November 2014 at Philadelphia, PA. |
| 19 | Szkodny, L. E., **Jacobson, N. C.**, & Newman, M. G. (2014, November). *Relationship Between PTSD Symptomatology and Variability in Daily Thought Processes Using an Ecological Momentary Assessment Approach*. Poster presentation at the Association of Behavioral and Cognitive Therapies in November 2014 at Philadelphia, PA.  |
| 18 | **Jacobson, N. C.** & Newman, M. G. (2014, March). *Anxiety Predicting Depression across Minutes, Hours, and Days: An Ecological Momentary Assessment.* Oral symposium accepted to Anxiety and Depression Association of at Chicago, IL. Chairs: **Jacobson, N.C.** & Newman, M. G. |
| 17 | Szkodny, L. E., **Jacobson, N. C.**, & Newman, M. G. (2014, March). *Using an ecological momentary assessment approach to examine the relationship between neuroticism and conscientiousness and variability in constructive and unconstructive thought processes*. Poster presented at the Annual Meeting of the Society for Personality Assessment, Arlington, VA. **Honorable Mention, for the Best Student Poster Award.** |
| 16 | Newman, M.G, Castonguay, L., **Jacobson, N.C.** & Fisher, A.J. (2013, November). *Attachment as a Moderator of CBT for GAD With and Without Interpersonal and Emotional Processing Techniques*. Oral presentation at the Association of Behavioral and Cognitive Therapies in November 2013 at Nashville, TN.  |
| 15 | Newman, M. G., Yen, J., Mitra, P., Murphy, W., **Jacobson, N. C.**, and Kim, H. (2013, November). *Supervised Machine Learning Classification of Journals Entries About Emotional Personal Experiences*. Paper presented at The American Medical Informatics Association, Washington, D. C. |
| 14 | **Jacobson, N. C.,** & Newman, M. G. (2013, May). *The Temporal Relationship Between Anxiety and Depression: A Meta-Analysis.* Poster presentation at the Association for the Psychological Science (APS) Conference in May 2013 at Washington DC. **Honorable Mention, Association for the Psychological Science Student Caucus Student Research Awards.** |
| 13 | **Jacobson, N. C.,** & Newman, M. G. (2013, May). *Avoidance Mediates Earlier Anxiety and Later Depression over a Decade Later.* Poster presentation at the Association for the Psychological Science (APS) Conference in May 2013 at Washington DC. |
| 12 | **Jacobson, N. C.,** & Newman, M. G. (2013, May). *Anxiety Predicts Depression over the Course of Minutes, Hours, and Days: An Ecological Momentary Assessment.* Poster presentation at the Association for the Psychological Science (APS) Conference in May 2013 at Washington DC. |
| 11 | **Jacobson, N. C.,** & Newman, M. G. (2013, April). *State Anxiety Predicting State Depression across Hours: An Ecological Momentary Assessment.* Poster presentation at the Association for the Workshop on Intensive Longitudinal Methods: Analysis of Diary and Experience Sampling Data Conference in April 2013 at State College, Pennsylvania. |
| 10 | **Jacobson, N. C**., & Newman, M. G. (2012, November). *The Temporal Relationship Between Anxiety and Depression: A Meta-Analysis.* Poster presented at the Association for Behavioral and Cognitive Therapies, National Harbor, Maryland. |
| 9 | **Jacobson, N. C.,** & Newman, M. G. (2012, November). *Testing the Mediating Role of Avoidance Between Anxiety and Depression.* Poster presented at the Association for Behavioral and Cognitive Therapies, National Harbor, Maryland. |
| 8 | **Jacobson, N. C.,** & Newman, M. G. (2012, November). *Anxiety as a Temporal Predictor of Depression during Brief Time Periods: An Ecological Momentary Assessment*. Poster presented at the Association for Behavioral and Cognitive Therapies, National Harbor, Maryland.  |
| 7 | **Jacobson, N.C.,** & Constance, J (2012, November). *Effectiveness of Cognitive-Behavioral Therapy in Reducing Anxiety among those with Autism Spectrum Disorders: a Meta-Analysis.* Poster presentation at the Association for Behavioral and Cognitive Therapies, National Harbor, Maryland. |
| 6 | **Jacobson, N.C.,** & Constance, J (2012, May). *Effectiveness of Cognitive-Behavioral Therapy in Reducing Anxiety among those with Autism Spectrum Disorders: a Meta-Analysis.* Poster presentation at the Society for Psychotherapy Research in May 2012 at Virginia Beach, VA. |
| 5 | **Jacobson, N. C.** (2012, May). *Strengths and Weaknesses in Test-Taking: In What Ways Do Anxiety and Impulsivity Impact Test Performance?* Poster presentation at the Association for the Psychological Science (APS) Conference in May 2012 at Chicago, IL. |
| 4 | **Jacobson, N**. **C.** Kramer, S., Tharp, A., Harmon, K., Cejas, G. & Costa, S. (2012). *Deficits of Encoding in Hypnosis: A Result of Altered State of Awareness.* Poster presentation at the Association for the Psychological Associations Annual Conference in May 2012 at Chicago, IL.  |
| 3 | **Jacobson, N. C.,** & Constance (2012, May). *Effectiveness of Cognitive-Behavioral Therapy in Reducing Anxiety among those with Autism Spectrum Disorders: A Meta-Analysis.* Poster presentation at the Association for the Psychological Science National Conference in May 2012 at Chicago, IL. |
| 2 | Szkodny, L. E., Mogle, J.A., **Jacobson, N. C**, Newman, M. G., Sliwinski, M. J. (2011, November). *Evaluating Quantity and Quality of Worrisome and Intrusive Thoughts and their Triggers: An Ecological Momentary Assessment Approach*. Poster presentation at Association for Behavioral and Cognitive Therapies Anxiety Special Interest Group in November, 2011 at Toronto, Ontario. **Best Student Poster Award from Anxiety Special Interest Group.** |
| 1 | **Jacobson, N. C.,** Jacobson, B, Clark, S., & Breault, M. (2010, May). *She Makes Me Look Like That?: The Effects of Radiating Beauty in Romantic Relationships*. Poster presentation at the Association for the Psychological Science (APS), National Conference, in May 2010 at Boston, MA.  |
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**b3. regional/local conference presentations**

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| **nUMBER** | **PRESENTATION** |
| 9 | **Jacobson, N. C.**, Kramer, S., Tharp, A., Harmon, K., Cejas, G., & Costa, S. (2011, May). *Learning in Hypnosis: Applications to Academic Performance*. Poster presentation at the Midwestern Psychological Association Conference in May 2011 at Chicago, IL. **Regional Research Award from Psi Chi**: **International Honor Society in Psychology.** |
| 8 | Constance, J., & **Jacobson, N. C.** (2011, May). *Effectiveness of Cognitive-Behavioral Therapy in Reducing Anxiety among those with Autism Spectrum Disorders: a Meta-Analysis.* Poster presentation at the Midwestern Psychological Association Conference in May 2011 at Chicago, IL. |
| 7 | **Jacobson, N. C.**, Jacobson, B., Clark, S. & Breault, M. (2011, May). *Male Preferences in the Female Body Type*. Poster presentation at the Midwestern Psychological Association Conference in May 2011 at Chicago, IL. |
| 6 | **Jacobson, N. C.,** & Vittengl, J. (2011, May). *Strengths and Weaknesses in Test-Taking: In What Ways Do Anxiety and Impulsivity Impact Test Performance?* Poster presentation at the Midwestern Psychological Association Conference in May 2011 at Chicago, IL. |
| 5 | Ruberton, P., **Jacobson, N. C.**, Bangert, L., Constance, J., Pearlstein, J., & Vittengl, J. (2011, May). *Seeing the Good in Life: The Effects of Gratitude Reflection on Perceived Life Events and Subjective Well-Being*. Poster presentation at the Midwestern Psychological Association Conference in May 2011 at Chicago, IL. |
| 4 | Schickler, A., Brown, J., Ruberton, P., Constance, J., **Jacobson, N. C.**, Pearlstein, J., Spalding, K, Conner, D. & Vittengl, J. (2011, May). *Statistics Skills Preferred by Psychology Graduate Programs*. Poster presentation at the Midwestern Psychological Association Conference in May 2011 at Chicago, IL. |
| 3 | **Jacobson, N. C.,** & Vittengl, J. (2011, March). *Strengths and Weaknesses in Test-Taking: In What Ways Do Anxiety and Impulsivity Impact Test Performance?* Poster presentation before congress in March at Jefferson City, MO. |
| 2 | **Jacobson, N. C.,** Kramer, S., Tharp, A., Costa, S., & Hawley, P. (2010, June). *Testing under a Trance: The Effect of Post-Hypnotic Suggestion on Academic Performance.* Poster presentation at the Midwestern Psychological Association Annual Conference in June 2010 at Chicago, IL.  |
| 1 | **Jacobson, N. C.,** Kramer, S., Tharp, A., Costa, S., & Hawley, P. (2010, May). *Testing under a Trance: The Effect of Post-Hypnotic Suggestion on Academic Performance.* Poster presentation at the Missouri Psychological Association’s Annual Conference in May 2010 at Lake of the Ozarks, MO. |
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1. **Bibliography**

**A. Peer-reviewed publications in print, in press or other media**

**Total Number of Peer Reviewed Publications: 72**

**Total Number of 1st author: 25**

**Total Number of Last/Senior Author: 23**

**Google Scholar H-Index: 25; Number of Citations 1,899**

\* Denotes current or former students

Underline denotes first or last author

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| **nUMBER** | **publication** |
| 72 | Gyorda, J.A.\*, Nemesure, M.\*, Price G.\*, & **Jacobson, N.C.** (2022). Applying Ensemble Machine Learning Models to Predict Individual Response to a Digitally Delivered Worry Postponement Intervention. *Journal of Affective Disorders.* <https://doi.org/10.1016/j.jad.2022.09.112> |
| 71 | **Jacobson, N.C.**, Arean, P., & Schueller, S.M. (2022, In press). Mobile-phone based interventions for mental health show promise of effectiveness, but what does the evidence tell us about what needs to come next? *PLOS Digital Health*.  |
| 70 | Lekkas, D.\*, Gyorda, J.A.\*, & **Jacobson, N.C.** (2022, In press). The Temporal Dynamics of Physical Activity-Mediated Emotional Regulation in Adolescents with Anorexia Nervosa and Healthy Controls: Investigating the Impact of Physical Activity on Self-Report Emotion with Wearable Technology and Lag-Ensemble Machine Learning. *European Eating Disorders Review*. <https://doi.org/10.1002/erv.2949>  |
| 69 | Price, G.D.\*, Heinz, M.V.\*, Zhao, D.\*, Nemesure, M.\*, Ruan, F.\*, & **Jacobson, N.C.** (2022, In press). An Unsupervised Machine Learning Approach Using Passive Movement Data to Understand Depression and Schizophrenia. *Journal of Affective Disorders.* <https://doi.org/10.1016/j.jad.2022.08.013>  |
| 68 | Price, G.D.,\* Heinz, M.V.,\* Nemesure, M.D.,\* McFadden, J.,\* **Jacobson, N.C.** (2022, In press). Predicting Symptom Response and Engagement in a Digital Intervention Among Individuals with Schizophrenia and Related Psychoses. *Frontiers in Psychiatry*. <https://doi.org/10.3389/fpsyt.2022.807116>  |
| 67 | Klein, R. J.,\* **Jacobson, N.C.** & Robinson, M.D. (2022, In press). A Psychological Flexibility Perspective on Well-Being Emotional Reactivity, Adaptive Choices, and Daily Experiences. *Emotion*. <https://doi.org/10.1037/emo0001159>  |
| 66 | **Jacobson, N.C.** & Feng, B.Y.\* (2022, In press). Digital Phenotyping of Generalized Anxiety Disorder: Using Artificial Intelligence to Accurately Predict Symptom Severity Using Wearable Sensors in Daily Life. *Translational Psychiatry.* <https://doi.org/10.1038/s41398-022-02038-1>  |
| 65 | Nemesure, M.D.\*, Streltzov, N., Schommer, L.M. Lekkas, D.\*, **Jacobson, N.C.** & Bujarski, K.A. (2022, In press). Predictive Modeling of Suicidal Ideation in Patients with Epilepsy. *Epilepsia*. <https://doi.org/10.1111/epi.17324>  |
| 64 | Greenberg JL, **Jacobson NC**, Hoeppner SS, Bernstein EE, Snorrason I, Schwartzberg A, Steketee G, Phillips KA, Wilhelm S. (2022, In press). Early Response to Cognitive Behavioral Therapy for Body Dysmorphic Disorder as a Predictor of Outcomes. *Journal of Psychiatric Research*. <https://doi.org/10.1016/j.jpsychires.2022.06.001>  |
| 63 | Zarate, D., Stavropoulos, V., Ball, M., de Sena Collier, G., **Jacobson, N.C.** (2022, In press). Exploring the Digital Footprint of Depression: A PRISMA Systematic Literature Review of the Empirical Evidence. *BMC Psychiatry.* <https://doi.org/10.1186/s12888-022-04013-y>  |
| 62 | Marsch, L. A. Chen, C., Adams, S.R., Asyyed, A., Does, M. B. Hassanpour, S., Hichborn, E., Jackson-Morris, M., **Jacobson, N.C.,** Jones, H.K., Kotz, D., Lambert-Harris, CA., Li, Z., McLeman, B., Mishra, V., Stanger, C., Subramaniam, G., Wu, W., and Campbell, C.I. (2022, In press). The feasibility and utility of harnessing digital health to understand clinical trajectories in medication treatment for Opioid Use Disorder: D-TECT Study Design and Methodological Considerations. *Frontiers in Psychiatry*. <https://doi.org/10.3389/fpsyt.2022.871916>  |
|  |  |
| 61 | Hart, A., Rais, D., Prestele, E. & **Jacobson, N.C.** (2022, In press). Using Smartphone Sensor Paradata and Personalized Machine Learning Models to Infer Participants' Well-being: Ecological Momentary Assessment. *Journal of Medical Internet Research (JMIR).* <https://doi.org/10.2196/34015>  |
| 60 | Klein, R.J.,\* Gyorda, J.A.\*, & **Jacobson, N.C**. (2022, In press). Anxiety, depression, and substance experimentation in childhood. *PLOS One*. <https://doi.org/10.1371/journal.pone.0265239>  |
| 59 | Heinz, M.V.\*, Price, G.\*, Ruan, F.\*, Klein, R.J.\*, Nemesure, M.\*, Lopez, A.,\* & **Jacobson, N.C**. (2022, In press). Association of Selective Serotonin Reuptake Inhibitor Use With Abnormal Physical Movement Patterns as Detected Using a Piezoelectric Accelerometer and Deep Learning in a Nationally Representative Sample of Noninstitutionalized Persons in the US. *JAMA Network Open.* <https://doi.org/10.1001/jamanetworkopen.2022.5403>  |
| 58 | Klein, R.J.,\* Nguyen, N.,\* Gyorda, J.A.\*, & **Jacobson, N.C**. (2022, In press) Adolescent emotion regulation and future psychopathology: A prospective transdiagnostic analysis. *Journal of Research on Adolescence*. <https://doi.org/10.1111/jora.12743>  |
| 57 | **Jacobson, N.C.**, Chen, W.\*, Huang, R.\* (2022, in press) Standalone Apps for Anxiety and Depression Show Promising Early Efficacy: A Commentary on Meta-Analytic Results. *Meta-Psychology.* doi: <https://doi.org/10.31234/osf.io/v48w9> |
| 56 | Fitzsimmons-Craft, E.E., Chan, W.S., Smith, A.C., Firebaugh, M., Fowler, L.A., DePietro, B., Topooco, N., Wilfley, D.E., Taylor, C.B., & **Jacobson, N.C.** (2022, In press). Effectiveness of a chatbot for eating disorders prevention: A randomized clinical trial. *International* *Journal of Eating Disorders.* <https://doi.org/10.1002/eat.23662> |
| 55 | Chan, W.W., Fitzsimmons-Craft, E.E., Smith, A.C., Firebaugh, M., Fowler, L.A., DePietro, B.; Topooco, N., Taylor, C.B., & **Jacobson, N.C.** (2022, In press). Challenges in Designing a Mental Health Prevention Chatbot: Lessons Learned from the Field. *Journal of Medical Internet Research (JMIR)*. <https://doi.org/10.2196/28003>  |
| 54 | **Jacobson, N. C.** & Bhattacharya, S.\* (2021, In press). Digital Biomarkers of Anxiety Disorder Symptom Changes Personalized Deep Learning Models Using Smartphone Sensors Accurately Predict Anxiety Symptoms from Ecological Momentary Assessments*. Behaviour Research and Therapy*. <https://doi.org/10.1016/j.brat.2021.104013>  |
| 53 | Lekkas, D.\*, Gyorda, J.A.\*, Price, G.D.\*,Wortzman, Z.\*, & **Jacobson, N.C.** 2021, In press). The Language of the Times: Using the COVID-19 Pandemic to Assess the Influence of News Affect on Online Mental Health-Related Search Behavior across the United States. *Journal of Medical Internet Research (JMIR)*. <https://doi.org/10.2196/32731>  |
| 52 | Ollier, J., Neff, S., Dworschak, C., Sejdiji, A., Santhanam, P., Keller, R., Xiao, G., Asisof, A., Rüegger, D., Bérubé, C., Hilfiker, L., Neff, J., Yao, J., Alattas, A., Varela-Mato, V., Pitkethly, A., Dolores Vara, M., Herrero, R., Mª Baños, R., Parada, C., Sundaram Agatheswaran, R., Villalobos, V., Clare Keller, O., Sze Chan, W., Mishra, V., **Jacobson, N.C.**, Stanger, C., He, X., Von Wyl, V., Weidt, S., Haug, S., Patrick Schaub, M., Kleim, B., Barth, J., M. Witt, C., Scholz, U., Fleisch, E., von Wangenheim, F., Tudor Car, L., Müller-Riemenschneider, F., Hauser-Ulrich, S., Núñez Asomoza, A., Salamanca-Sanabria, A., Louise Mair, J., & Kowatsch, T., (2021, In press) Elena+ Care for COVID-19, A Pandemic Lifestyle Care Intervention: Intervention Design and Study Protocol. *Frontiers in Public Health*. <https://doi.org/10.3389/fpubh.2021.625640>  |
| 51 | Lekkas, D.\*, Price, G.\* & **Jacobson, N.C.** (2021, In press). Using Smartphone App Use and Lagged-Ensemble Machine Learning for the Prediction of Work Fatigue and Boredom. *Computers in Human Behavior.* <https://doi.org/10.1016/j.chb.2021.107029> |
| 50 | Lekkas, D.\*, Price, G.\*, McFadden, J.\* & **Jacobson, N. C.** (2021, In press). The Application of Machine Learning to Online Mindfulness Intervention Data: A Primer and Empirical Example in Compliance Assessment. *Mindfulness.* <https://doi.org/10.1007/s12671-021-01723-4> |
| 49 | Teepe, G.W., Fonseca, A.D., Kleim, B., **Jacobson, N.C.**, Sanabria, A.S., Car, L.T, Fleisch, E., & Kowatsch, T. (2021, In press). Just-in-time Adaptive Mechanisms of Popular Mobile Applications for Individuals with Depression: Systematic Review. *Journal of Medical Internet Research (JMIR)*. <https://doi.org/10.2196/29412>  |
| 48 | Lekkas, D.\*, Klein, R. J.\*, & **Jacobson, N.C.** (2021, in press). Predicting Acute Suicidal Ideation on Instagram Using Ensemble Machine Learning Models. *Internet Interventions*. <https://doi.org/10.1016/j.invent.2021.100424>  |
| 47 | **Jacobson, N.C.,** Evey, K.J., Wright, A.G.C, & Newman, M.G. (2021, in press). Integration of Discrete and Global Structures of Affect Across Three Large Samples: Specific Emotions Within-Persons and Global Affect Between-Persons. *Emotion*. <https://doi.org/10.1037/emo0001022>  |
| 46 | Newman, M. G., Kanuri, N., Rackoff, G., **Jacobson, N.C.,** Jones, M., & Taylor, C. B. (2021, in press). A Randomized Controlled Feasibility Trial of Internet-Delivered Guided Self-Help for Generalized Anxiety Disorder (GAD) Among University Students in India. *Psychotherapy, 58,* 591-601. <https://doi.org/10.1037/pst0000383>  |
| 45 | Lekkas, D.\* & **Jacobson, N.C.** (2021, in press). Using Artificial Intelligence and Longitudinal Location Data to Differentiate Persons who Develop Posttraumatic Stress Disorder Following Childhood Trauma. *Scientific Reports, 11.* <https://doi.org/10.1038/s41598-021-89768-2>  |
| 44 | Mack, D., DaSilva, A., Rogers, C., Hedlund, E. L., Murphy, E. I., Vojdanovski, V., Plomp, J., Wang, W., Nepal, S., Holtzheimer, P.E., Wagner, D.D., **Jacobson, N.C.**, Meyer, M.L., Campbell, A.T., & Huckins, J. F. (2021, in press). Mental Health and Behavior of College Students in the COVID-19 Pandemic: A Longitudinal Mobile Smartphone and Ecological Momentary Assessment Study - Part II. *Journal of Medical Internet Research (JMIR).* <https://doi.org/10.2196/28892>  |
| 43 | Yom-Tov, E., Lekkas, D.\*, & **Jacobson, N. C.**. (2021, in press). Association of COVID19-induced Anosmia and Ageusia with Depression and Suicidal Ideation. *Journal of Affective Disorders Reports*. <https://doi.org/10.1016/j.jadr.2021.100156>  |
| 42 | Sofis, M.J., Lemley, S.M., **Jacobson, N.C**., & Budney, A.J. (2021, in press). Initial Evaluation of Domain-Specific Episodic Future Thinking on Delay Discounting and Cannabis Use. *Experimental and Clinical Psychopharmacology*. <https://doi.org/10.1037/pha0000501>  |
| 41 | Shin, K., Newman, M.G., & **Jacobson, N.C.** (in press). Emotion Network Density as a Potential Clinical Marker: Comparison of Ecological Momentary Assessment and Daily Diary. *British Journal of Clinical Psychology.* <https://doi.org/10.1111/bjc.12295> |
| 40 | Fitzsimmons-Craft, E. E., Taylor, C. B., Newman, M. G., Zainal, N. H., Rojas-Ashe, E., Lipson, S. K., Firebaugh, M., Ceglarek, P., Topooco, N., **Jacobson, N. C.**, Graham, A. K., Kim, H. M., Eisenberg, D., & Wilfley, D. E. (in press). Harnessing mobile technology to reduce mental health disorders in college populations: A randomized controlled trial study protocol. *Contemporary Clinical Trials*. <https://doi.org/10.1016/j.cct.2021.106320> |
| 39 | Barr, P.J., Ryan, J, & **Jacobson, N.C.** (2021, In press). Precision Assessment of COVID-19 Phenotypes Using Large-Scale Clinic Visit Audio Recordings. *Journal of Medical Internet Research (JMIR)*. <https://doi.org/10.2196/20545>  |
| 38 | **Jacobson, N.C**., Lekkas, D.\*, Huang, R.\*, & Thomas, N.\* (2021). Deep Learning Paired with Wearable Passive Sensing Data Predicts Deterioration in Anxiety Disorder Symptoms across 17-18 Years. *Journal of Affective Disorders, 282,* 104-111. <https://doi.org/10.1016/j.jad.2020.12.086> |
| 37 | Nemesure, M.D\*, Heinz, M. V.\*, Huang, R.\* & **Jacobson, N. C.** (2021). Predictive Modeling of Psychiatric Illness using Electronic Medical Records and a Novel Machine Learning Approach with Artificial Intelligence. *Scientific Reports.* <https://doi.org/10.1038/s41598-021-81368-4> |
| 36 | **Jacobson, N.C.** & Nemesure, M.D.\* (2021). Using Artificial Intelligence to Predict Change in Depression and Anxiety Symptoms in a Digital Intervention: Evidence from A Transdiagnostic Randomized Controlled Trial. *Psychiatry Research*. <https://doi.org/10.1016/j.psychres.2020.113618>  |
| 35 | Meyer, N., Joyce, D. W., Karr, C., Dijk, D.J., **Jacobson, N.C.** & MacCabe, J. (2020, In press). The Temporal Dynamics of Sleep Disturbance and Psychopathology in Psychosis: A Digital Sampling Study. *Psychological Medicine.* [*https://doi.org/10.1017/S0033291720004857*](https://doi.org/10.1017/S0033291720004857) |
| 34 | **Jacobson, N.C.**, Yom-Tov, E., Lekkas, D.\*, Heinz, M.\*, Liu, L.\*, Barr, P.J. (2020, In press). Impact of Online Mental Health Screening Tools on Help-Seeking, Care Receipt, and Suicidal Ideation and Suicidal Intent: Evidence from Internet Search Behavior in a Large U.S. Cohort. *Journal of Psychiatric Research*. <https://doi.org/10.1016/j.jpsychires.2020.11.010>  |
| 33 | Dosovitsky, G., Pineda, B., Chang, C., **Jacobson, N.C.** & Bunge, E.L. (2020, In press). Artificial Intelligence Chatbot for Depression: Descriptive Study of Usage. *JMIR Formative Research, 4, e17065*. <https://doi.org/10.2196/17065>  |
| 32 | Newman, M. G., **Jacobson, N.C**., Rackoff, G. N., Jones, M., & Taylor, C. B. (2020, In press). A randomized controlled trial of a smartphone-based application for the treatment of anxiety. *Psychotherapy Research.* <https://doi.org/10.1080/10503307.2020.1790688>  |
| 31 | Sofis, M. J., Pike, C.K, **Jacobson, N.C.**, Liu, L.\*, Budney, A.J., Borodovsky, J.T. (2020, In press). Sifting Through the Weeds: Differential Relationships Between Cannabis Use Frequency Measures and Delay Discounting. *Addictive Behaviors*. <https://doi.org/10.1016/j.addbeh.2020.106573>  |
| 30 | **Jacobson, N. C.** & Chung, Y.J.\* (2020, In press). Passive Sensing of Prediction of Moment-to-Moment Depressed Mood among Undergraduates with Clinical Levels of Depression Sample using Smartphones. *Sensors, 20,* 3572.<http://dx.doi.org/10.3390/s20123572>  |
| 29 | Nelson, B. W., Low, C., **Jacobson, N. C.**, Areán, P., Torous, J., & Allen, N.B.(2020). Guidelines for Wrist-Worn Consumer Wearables Assessment of Heart Rate in Biobehavioral Research. *npj Digital Medicine, 3*, 90*.* <https://doi.org/10.1038/s41746-020-0297-4>  |
| 28 | **Jacobson, N.C.**, Lekkas, D.\*, Price, G.P.\*, Heinz, M.V.\*, Song, M.\*, O’Malley, A.J. & Barr, P.J. (2020). Flattening the Mental Health Curve: COVID-19 Stay-at-Home Orders Are Associated With Alterations in Mental Health Search Behavior in the United States, *JMIR Mental Health,* *7*, e19347. <http://dx.doi.org/10.2196/19347>  |
| 27 | Lord, K.A.\*, **Jacobson, N. C.,** Suvak, M., & Newman, M. G. (2020). Social Criticism Moderates the Relationship Between Anxiety and Depression 10 Years Later. *Journal of Affective Disorders, 1*, 15-22. <http://dx.doi.org/10.1016/j.jad.2020.05.030>  |
| 26 | **Jacobson, N. C.**, Summers B., & Wilhelm, S. (2020). Digital Biomarkers of Social Anxiety Symptom Severity: Digital Phenotyping using Passive Smartphone Sensors. *Journal of Medical Internet Research (JMIR), 22*, e16875*.* <http://dx.doi.org/10.2196/16875>  |
| 25 | **Jacobson, N.C.** Bentley, K. H., Walton, A., Wang, S.B., Fortgang, R.G., Millner, A.J. Coombs, G. C., Rodman, A.M., Coppersmith, D.D.L. (2020). Ethical Dilemmas Created by Mobile Health and Machine Learning within Research in Psychiatry. *Bulletin of the World Health Organization, 98,* 270-276. <http://dx.doi.org/10.2471/BLT.19.237107>  |
| 24 | Wilhelm, S., Weingarden, H., Ladis, I. Braddick, V., Shin, J. & **Jacobson, N.C.** (2020). Cognitive Behavioral Therapy in the Digital Age: Presidential Address. *Behavior Therapy*, 1, 1-14. <http://dx.doi.org/10.1016/j.beth.2019.08.001>  |
| 23 | **Jacobson, N.C.** & O'Cleirigh, C.M. (2019, in press). Objective Digital Phenotypes of Worry Severity, Pain Severity, and Pain Chronicity in Persons Living with HIV. *The* *British Journal of Psychiatry.* <http://dx.doi.org/10.1192/bjp.2019.168> |
| 22 | **Jacobson, N.C.,** Weingarden, H., & Wilhelm, S. (2019). Using Digital Phenotyping to Accurately Detect Depression Severity. *Journal of Nervous and Mental Disease, 207*, 893-896. <http://dx.doi.org/10.1097/NMD.0000000000001042>  |
| 21 | **Jacobson, N.C.**, Weingarden, H., & Wilhelm, S. (2019). Digital Biomarkers of Mood Disorders and Symptom Change. *Nature Partner Journal (npj): Digital Medicine, 2,* 1-2. <http://dx.doi.org/10.1038/s41746-019-0078-0>  |
| 20 | Newman, M. G., **Jacobson, N. C.,** Zainal, N. H., Shin, K. E., Szkodny, L. E., Sliwinski, M. J. (2019). The effects of worry in daily life: An ecological momentary assessment study supporting the tenets of the Contrast Avoidance Model. *Clinical Psychological Science*, *7*, 794-810*.* <http://dx.doi.org/10.1177/2167702619827019>  |
| 19 | **Jacobson, N. C.,** Chow, S. M., & Newman, M.G. (2019). The Differential Time-Varying Effect Model (DTVEM): A tool for diagnosing optimal measurement and modeling intervals in intensive longitudinal data. *Behavior Research Methods, 51,* 295-315*.* <http://dx.doi.org/10.3758/s13428-018-1101-0>  |
| 18 | **Jacobson, N. C.** & Roche, M. J. (2018). Current evolutionary adaptiveness of anxiety: Extreme phenotypes of anxiety predict increased fertility across multiple generations. *Journal of Psychiatric Research, 106,* 82-90*.* <http://dx.doi.org/10.1016/j.jpsychires.2018.10.002> |
| 17 | Roche, M. J, **Jacobson, N. C.,** &Phillips. J. (2018). Expanding the validity of the Level of Personality Functioning Scale Observer-Report and Self-Report versions across psychodynamic and interpersonal paradigms. *Journal of Personality Assessment*, *100*, 571-580. <http://dx.doi.org/10.1080/00223891.2018.1475394> |
| 16 | Ji, L., Chow, S. M., Schermerhorn, A. C., **Jacobson, N. C**. & Cummings, M. (2018). Handling missing data in the modeling of intensive longitudinal data. *Structural Equation Modeling*, *25*,715-736. <http://dx.doi.org/10.1080/10705511.2017.1417046>  |
| 15 | Roche, M.J. & **Jacobson, N.C.** (2018). Elections have consequences for student mental health: An accidental daily diary study. *Psychological Reports. 122,* 451–464. <http://dx.doi.org/10.1177/0033294118767365>  |
| 14 | Newman, M.G., LaFreniere, L.S., & **Jacobson, N.C.** (2018). Relaxation-induced anxiety: Effects of peak and trajectories of change on treatment outcome for generalized anxiety disorder. *Psychotherapy Research, 68,* 616-629. <http://dx.doi.org/10.1080/10503307.2016.1253891>  |
| 13 | **Jacobson, N. C.** & Newman. M. G. (2017). Anxiety and depression as bidirectional risk factors for one another: A meta-analysis of longitudinal studies. *Psychological Bulletin, 143,* 1155-1200*.* <http://dx.doi.org/10.1037/bul0000111> **(Winner of the** **College of the Liberal Arts Raymond Lombra Graduate Student Award for the Excellence in Research in the Social Sciences, Pennsylvania State University; Winner Best Research Paper Award in Psychology, Pennsylvania State University).** |
| 12 | Frank, B., **Jacobson, N. C.,** Hurley, L. & McKay, D(2017)**.** A theoretical and empirical modeling of anxiety integrated with RDoC and temporal dynamics. *Journal of Anxiety Disorders, 51,* 39-46. <http://dx.doi.org/10.1016/j.janxdis.2017.09.002>  |
| 11 | **Jacobson, N. C.,** Lord, K. A.\*, & Newman, M. G. (2017). Perceived emotional social support in bereaved spouses mediates the relationship between anxiety and depression. *Journal of Affective Disorders, 211,* 83-91. <http://dx.doi.org/10.1016/j.jad.2017.01.011>  |
| 10 | Roche, M. J., **Jacobson, N. C.**, & Roche, C. A. (2017). Teaching strategies for personality assessment at the undergraduate level. *Journal of Personality Assessment*, *99*, 117-125. <http://dx.doi.org/10.1080/00223891.2016.1147450>  |
| 9 | **Jacobson, N. C.** (2016).Current evolutionary adaptiveness of psychiatric disorders: Fertility rates, parent−child relationship quality, and psychiatric disorders across the lifespan. *Journal of Abnormal Psychology*, *125*, 824-839. <http://dx.doi.org/10.1037/abn0000185>  |
| 8 | Newman, M. G., **Jacobson, N. C.,** Erickson, T. M., & Fisher, A. J. (2016). Interpersonal problems predict differential response to cognitive versus behavioral treatment in a randomized controlled trial. *Behavior Therapy, 48,* 56-68. <http://dx.doi.org/10.1016/j.beth.2016.05.005>  |
| 7 | Roche, M. J., **Jacobson, N. C.,** & Pincus, A. L. (2016). Using repeated daily assessments to uncover oscillating patterns and temporally-dynamic triggers in structures of psychopathology: Applications to the DSM–5 alternative model of personality disorders. *Journal of Abnormal Psychology*, *125*, 1090-1102. <http://dx.doi.org/10.1037/abn0000177>  |
| 6 | **Jacobson, N. C.,** Newman, M. G., & Goldfried, M. R. (2016). Clinical feedback about empirically supported treatments for obsessive-compulsive disorder. *Behavior Therapy*, *47*, 75-90. <http://dx.doi.org/10.1016/j.beth.2015.09.003>  |
| 5 | **Jacobson, N**. **C.** & Newman, M.G. (2016). Perceptions of close and group relationships mediate the relationship between anxiety and depression over a decade later. *Depression and Anxiety*, *33*, 66-74*.* <http://dx.doi.org/10.1002/da.22402>  |
| 4 | Newman, M. G., Castonguay, L.G., **Jacobson, N.C.** & Moore, G. (2015). Adult attachment as a moderator of treatment outcome for GAD: Comparison between CBT plus supportive listening and CBT plus interpersonal and emotional processing therapy. *Journal of Consulting and Clinical Psychology*, *83*, 915-925*.* <http://dx.doi.org/10.1037/a0039359>  |
| 3 | **Jacobson, N. C.,** & Newman, M. G. (2014). Avoidance mediates the relationship between anxiety and depression over a decade later. *Journal of Anxiety Disorders,* *28*, 437-445. <http://dx.doi.org/10.1016/j.janxdis.2014.03.007>  |
| 2 | **Jacobson, N. C.,** Kramer, S. L., Tharp, A. G., Harmon, K. A., Cejas, G. P., & Costa, S. C. (2013). Deficits of encoding in hypnosis: A result of altered state of awareness. *American Journal of Clinical Hypnosis*, *55*, 360-369. <http://dx.doi.org/10.1080/00029157.2012.696286>  |
| 1 | **Jacobson, N**. **C.** Kramer, S., Tharp, A., Costa, S., & Hawley, P. (2011). The effects of encoding under hypnosis and post-hypnotic suggestion on academic performance. *American Journal of Clinical Hypnosis, 53,* 247-254. <http://dx.doi.org/10.1080/00029157.2011.10404354> **(Winner: Clark L. Hull Award for Scientific Excellence in Writing on Experimental Hypnosis from the American Journal of Clinical Hypnosis).** |

**B. MANUSCRIPTS IN REVIEW**

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| **nUMBER** | **publication** |
| 13 | **Jacobson, N.C.** Price, G.\*, Song, M.K.\*, Wortzman, Z.\*, Nguyen, N.D.\*, & Klein, R.J.\* Machine Learning Models Predicting Daily Affective Dynamics Via Personality and Psychopathology Traits. *Revise and Resubmit, Emotion.* |
| 12 | Greenberg, J.L., **Jacobson, N.C.,** Hoeppner, S.S., Bernstein, E.M., Snorrason, I., Steketee, G., Philips, K.A., & Wilhelm, S. Early Response to Cognitive Behavioral Therapy for Body Dysmorphic Disorder as a Predictor of Outcomes. *Revise and Resubmit, Journal of Psychiatric Research*.  |
|  |  |
| 11 | Klein, R.J.\*, Gyorda, J.\*, Lekkas, D.,\* & **Jacobson, N.C.** Dysregulated Emotion and Substance Experimentation in Childhood: A Large Nationally Representative Cohort Study*. Revise and Resubmit, Substance Use and Misuse.*  |
| 10 | **Jacobson, N.C.** Erickson, T., Quach, C.M., & Singh, N.B. Low Emotion Differentiation as a Transdiagnostic Risk Factor: Idiographic and Nomothetic Measurements Predicting Anxiety, Depression, and Personality Pathology. *Revise and Resubmit, Cognitive Therapy and Research*. |
| 9 | Yom-Tov, E., Lekkas, D.\*, Heinz, M.V.\*, Nguyen, T., Barr, P.J. & **Jacobson, N.C.** Digitally Filling the Access Gap in Mental Health Care: An Investigation of the Association between Rurality and Online Engagement with Validated Self-report Screens across the United States. *Revise and Resubmit, Journal of Psychiatric Research*.  |
| 8 | Gyorda, J.A.\*, Lekkas, D.\*, Price, G.\*, & **Jacobson, N.C.** Evaluating the impact of mask mandates and political party on mental health search behavior in the United States during the COVID-19 pandemic: A generalized additive mixed model framework. *Revise and Resubmit, Journal of Medical Internet Research (JMIR)*.  |
| 7 | **Jacobson, N.C.,** Abreu, V., & Limb, A.N. Using Wearables to Predict Clinical Anxiety: Digital Biomarkers of Sleep are able to Accurately Predict Anxiety Symptom Severity.  |
| 6 | **Jacobson, N. C.** & Wilhelm, S. Large Open Trial of a Personalized Smartphone Intervention: Using Digital Phenotyping to Deliver Personalized Feedback on Maintenance Factors Reduce Anxiety and Depressive Affect in Daily Life. |
| 5 | **Jacobson, N.C.** & Newman, M.G. Anxious Moods as a Risk Factor for Depressed Moods: An Ecological Momentary Assessment of Those with Clinical Anxiety and Depression. |
| 4 | Zanail, H. & **Jacobson, N.C.** Reliability (or Lack Thereof) of Smartphone-Delivered Visual Dot Probe Attention Bias Indices. doi: <https://doi.org/10.31219/osf.io/gj4eq>  |
| 3 | Wu, K.\*, McFadden, J.\* & **Jacobson, N.C.** Determining Timing Effects of Microrandomized Trials Using Intensive Longitudinal Data and the Differential Time-Varying Effect Model. doi: <https://doi.org/10.31234/osf.io/bt93s>  |
| 2 | Wang, Y.\*, Abreu, V.\*, Faddenn, J.\*, Bhattacharya, S.\*& **Jacobson, N.C.** Anxiety Disorders Strongly Predict an Increased Risk of Developing Eating Disorders: An Investigation of Bidirectional Sequential Comorbidity within a Large Nationally Representative Sample of Adults in the United States |
| 1 | Nemesure, M.D.\*, Park, C.\*, Morris, R., Chan, W. Fitzsimmons-Craft, E.E., Rackoff, C.G., Fowler, L., Taylor, C.B., & **Jacobson, N.C.** Evaluating the Effectiveness of a Single Session Digital Intervention for Body Image Concerns |

**C. BOOKS**

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| **NUMBER** | **PUBLICATION** |
| 1 | **Jacobson, N.C.**, Kowatsch, T. & Marsch, L.A.(Eds.) (2022, In press). Digital Therapeutics for Mental Health and Addiction: The State of the Science and Vision for the Future. Elsevier Press. ISBN: 9780323900454 |

**D. BOOK CHAPTERS**

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| **NUMBER** | **PUBLICATION** |
| 6 | **Jacobson, N.C.**, Quist, R.E.\*, Lee, C.M.\* & Marsch, L.A.(2022, In press). Using Digital Therapeutics to Target Gaps and Failures in Traditional Mental Health and Addiction Treatments. In N.C. Jacobson, T. Kowatsch, & L.A. Marsch (Eds.). Digital Therapeutics for Mental Health and Addiction: The State of the Science and Vision for the Future. Elsevier Press. Elsevier Press. ISBN: 9780323900454 |
| 5 | **Jacobson, N.C.**, Kowatsch, T. & Marsch, L.A.(2022, In press). A Vision for the Field of Digital Therapeutics. In N.C. Jacobson, T. Kowatsch, & L.A. Marsch (Eds.). Digital Therapeutics for Mental Health and Addiction: The State of the Science and Vision for the Future. Elsevier Press. Elsevier Press. ISBN: 9780323900454 |
| 4 | Heinz, M.V.\*, Price, G.\*, Song, S.\*, Bhattacharya, S.\* & **Jacobson, N.C.** (2022, In press). Passive Sensing and Generalized Anxiety Disorder. In I.C. Passos, F.D. Rabelo-da-Ponte, & F. Kapczinski (Eds.), *Digital Mental Health - A Practitioner's Guide:* Springer Nature. |
| 3 | Heinz, M.V.\*, Thomas, N.X.\*, Nguyen, N.\*, Griffin, T.\*, & **Jacobson, N.C.** (2021, In press). Technological Advances in Clinical Assessment. In G. Asmundson & M. Bagby. *Comprehensive Clinical Psychology, 2nd Edition*. Elsevier. <https://doi.org/10.1016/B978-0-12-818697-8.00171-0>  |
| 2 | Newman, M. G., **Jacobson, N. C.**, & Castonguay, L. (2014). Interpersonal and emotion-focused processing psychotherapy for generalized anxiety disorder. In P. M. Emmelkamp & T. Ehring (Eds.), *International Handbook of Anxiety Disorders: Theory, Research and Practice, Volume II*: Wiley Blackwell. |
| 1 | Szkodny, L. E., **Jacobson, N. C.,** & Newman, M. G. (2014). Generalized anxiety disorder. In G. O. Gabbard (Ed.), *Gabbard’s Treatments of Psychiatric Disorders, 5th Edition*: American Psychiatric Publishing. |

1. **Personal Statement**

My research focuses on both intensive longitudinal data and digital interventions for anxiety and depressive disorders, including delineating the longitudinal course of anxiety and depressive disorders and their symptoms, studying the dynamics in anxiety and depressive disorder symptoms using advanced modeling strategies, and using passive wearable and mobile sensor data to study anxiety and depressive disorders. In developing and programming my own smartphone application, I am conducting ongoing research in which I have collected the largest known sample of passive mobile sensing data to date, including over 10,000 participants across more than 100 countries. In this work, I have assessed hourly anxiety and depressive symptoms among persons with generalized anxiety and social anxiety disorder. Using my application, I utilize personalized models to give each user feedback on what is predicting their momentary anxiety and depressive symptom changes based on both ecological momentary assessments and passive sensing data. Early results suggest that feedback from these personalized models results in decreases in anxiety and depressive symptoms, as well as increases in heart rate variability, social contact, and physical activity over the course of one week alone. I also have a great deal of experience in developing, evaluating, and implementing novel and cutting-edge modeling time series techniques, including developing methods to estimate optimal time lags in intensive longitudinal data as well as developing personally weighted deep learning time series models.

I have published 72 peer reviewed publications (25 first or sole-authored; 23 last/senior-authored), many of which appeared in high-impact journals (e.g., *Psychological Bulletin*, IF = 23.027; *npj Digital Medicine*, IF = 15.357; *Bulletin of the World Health Organization*, IF = 13.831; *Journal of Anxiety Disorders*, IF = 13.711; *JAMA Network Open*, IF = 13.366; Psychiatry Research, IF = 11.225; *British Journal of Psychiatry*, IF = 10.671). I serve as a co-Investigator on a NIDA funded P30 at the Center for Technology and Behavioral Health, a NIDA “Center of Excellence”, where I utilize passive smartphone data to understand substance use disorders and co-occurring disorders. I also serve as a co-Investigator for a NIDA funded Northeast Node of the National Drug Abuse Clinical Trials Network for a project predicting response to opioid use disorder treatment using smartphone sensor data. Lastly, I am the PI of an active NIMH R01 award studying the use of deep learning to predict rapid symptom change in major depressive disorder using from smartphone and wearable sensor data.