

Alynn G. Summit, M.A.

Doctoral Candidate

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Education

Ph.D. Health Behavior; Minors: Epidemiology and Addictive Behavior Expected: May 2026
GPA: 3.97 Indiana University | Bloomington, Indiana
Advisor: Patrick D. Quinn, Ph.D.

Dissertation: *Trauma, chronic pain, and substance use: Examining the role of general chronic pain liability*

M.A. Psychological Science 2021
GPA: 3.97 University of North Carolina Wilmington | Wilmington, North Carolina

B.A. Psychology; Minors: Sociology and Spanish (*Summa Cum Laude*) 2019
GPA: 4.0 University of North Carolina Wilmington | Wilmington, North Carolina

Funded Grant Support

Primary Investigator 2024 – 2025
Evaluating the Association Between General Chronic Pain Liability and Clinically Recognized Substance Use
NIH/NIDA Pre-Doctoral Fellowship #F31DA061638
Total Costs: \$48,974 (early termination due to NIH program cancellation)

Pre-doctoral Trainee 2022 – 2024
Integrative Predoctoral Training in Drug Abuse Research at Indiana University
NIH/NIDA Institutional Training Grant #T32DA024628 (PIs: Mackie, Hohmann)
Indiana University

Publications

Summit, A. G., Lin, H., Wisner, K. M., Chen, C., Pettersson, E., Boersma, K., D’Onofrio, B. M., Lichtenstein, P., & Quinn, P. D. (2025). Assessing the association between child maltreatment and chronic pain: a cross-sectional co-twin control approach. *PAIN*. (In Press).

Summit, A. G., Moseley, M. C., Chaku, N., Elam, K. K., Jacobs, W., Lederer, A. M., Vaughan, E. L., & Quinn, P. D. (2025). Prevalence of pharmacotherapy for ADHD and prescription stimulant misuse: a national study of US college students. *Addiction (Abingdon, England)*, 120(4), 721–731. <https://doi.org/10.1111/add.16716>

Summit, A. G., Chen, C., Pettersson, E., Boersma, K., D’Onofrio, B. M., Lichtenstein, P., & Quinn, P. D. (2024). Preliminary validation of a general factor model of chronic overlapping pain conditions. *Journal of Pain*, 25(8), 104502. doi: 10.1016/j.jpain.2024.02.016.

Chen, C., Pettersson, E., **Summit, A. G.,** Boersma, K., Chang, Z., Kuja-Halkola, R., Lichtenstein, P., & Quinn, P. D. (2023). Chronic pain conditions and risk of suicidal behavior: a 10-year longitudinal co-twin control study. *BMC medicine*, 21(1), 9. <https://doi.org/10.1186/s12916-022-02703-8>

Elam, K. K., Kutzner, J., Bettinger, S., Qin, W., & **Summit, A. G.** (2023). Polygenic Risk for Aggression and Developmental Links with Substance Use via Gene-Environment Interplay. In: Martin, C. R., Preedy, V. R., Patel, V. B. (Eds.), *Handbook of Anger, Aggression, and Violence* (pp. 1547-1565). Springer, Cham. https://doi.org/10.1007/978-3-031-31547-3_85

Summit, A. G., & Noel, N. E. (2023). Assessing motivations and gender as factors in college students’ views of nonmedical prescription stimulant use. *Journal of American College Health*, 71(5), 1497-1503. <https://doi.org/10.1080/07448481.2021.1942005>

Manuscripts in Preparation

Summit, A. G., Medlin, A. R., Chaku, N., Elam, K. K., Jacobs, W., Lederer, A. M., Vaughan, E. L., & Quinn, P. D. (2026). *A national study of first-generation college students and prescription stimulant misuse*. [Manuscript in preparation]. Department of Applied Health Science, School of Public Health, Indiana University.

Summit, A. G., Chen, C., Pettersson, E., Boersma, K., D’Onofrio, B. M., Lichtenstein, P., & Quinn, P. D. (2026). *Evaluating the association between general chronic pain liability and clinically recognized substance use: a 10-year longitudinal co-twin control study*. [Manuscript in preparation]. Department of Applied Health Science, School of Public Health, Indiana University.

Presentations

Invited Talks

Assessing the Association Between Child Maltreatment and Chronic Pain Adjusting for Familial Confounding: A Co-Twin Control Approach | The US Association for the Study of Pain Psychosocial Factors and Interventions Special Interest Group Meeting Spring 2024

Oral Presentations

Quinn, P. D., **Summit, A. G.,** Moseley, M. C., Chaku, N., Elam, K. K., Jacobs, W., Lederer, A. M., & Vaughan, E. L. (2024, April). *ADHD pharmacotherapy and risk of prescription stimulant misuse: A national study of college students*. In Quinn, P. D. (Chair), Using National Survey Data to Study Social and Contextual Processes in Early Adult Substance Use. Symposium conducted at Collaborative Perspectives on Addiction, Denver, CO.

Quinn, P. D., **Summit, A. G.,** Chen, C., & Pettersson, E. (2023, March). *Chronic non-cancer pain conditions and substance use problems: A prospective, population-based study*. In Groenewald, C. (Chair), Pain and Opioid Use: Diverse Methodology Linking Pain to Opioid Use and

Substance Use Behaviors. Symposium conducted at Collaborative Perspectives on Addiction, Albuquerque, NM.

Chen, C., Pettersson, E., **Summit, A. G.**, Boersma, K., Chang, Z., Kuja-Halkola, R., Lichtenstein, P., & Quinn, P. D. (2022, June). *Chronic pain conditions and risk of suicidal behavior: A 10-year longitudinal co-twin control study*. Paper presented virtually at the meeting of the Behavior Genetics Association, Los Angeles, CA.

Poster Presentations

Summit, A. G., Medlin, A. R., Chaku, N., Elam, K. K., Jacobs, W., Lederer, A. M., Vaughan, E. L., & Quinn, P.D. (2025, April). *A national study of first-generation college students and prescription stimulant misuse*. Collaborative Perspectives on Addiction, Providence, RI.

Medlin, A. R., **Summit, A. G.**, Chaku, N., Elam, K. K., Jacobs, W., Lederer, A. M., Vaughan, E. L., & Quinn, P.D. (2025, April). *Diagnosed ADHD and prescription stimulant misuse: National undergraduate and graduate student study*. Collaborative Perspectives on Addiction, Providence, RI.

Chirica, M. G., **Summit, A. G.**, Chaku, N., Elam, K. K., Jacobs, W., Lederer, A. M., Vaughan, E. L., D'Onofrio, B. M., & Quinn, P.D. (2024, November). *A national study of Greek-life affiliation and suicidality among college students*. Association for Behavioral and Cognitive Therapies. Philadelphia, PA.

Summit, A. G., Lin, H. C., Pettersson, E., Boersma, K., D'Onofrio, B. M., Lichtenstein, P., & Quinn, P. D. (2024, April). *Assessing the association between child maltreatment and chronic pain adjusting for familial confounding: A co-twin control approach*. United States Association for the Study of Pain, Seattle, WA.

Moseley, M. C., **Summit, A. G.**, Chaku, N., Elam, K. K., Jacobs, W., Lederer, A. M., Vaughan, E. L. & Quinn, P. D. (2024, April). *A national study of Greek-life involvement and prescription stimulant misuse among college students*. Collaborative Perspectives on Addiction, Denver, CO.

Summit, A. G., Noel, N. E., & Quinn, P.D. (2023, March). *Similarities and differences in individual-level correlates of academic and recreational NMUPS*. Collaborative Perspectives on Addiction, Albuquerque, NM.

Summit, A. G., Quinn, P. D., Chen, C., & Pettersson, E. (2022, April) *Association of a general pain factor with opioid analgesic therapy: A national, longitudinal study*. Collaborative Perspectives on Addiction, Portland, OR.

Summit, A. G. & Noel, N. E. (2021, November). *Energy drink consumption predicts future intentions to engage in nonmedical prescription stimulant use among college students*. The Association for Behavioral and Cognitive Therapies, New Orleans, LA (virtual presentation due to COVID-19).

Rowland, S., **Summit, A. G.**, & Noel, N. E. (2021, November). *Interpretations of perpetrator alcohol use in rape myth acceptance*. The Association for Behavioral and Cognitive Therapies, New Orleans, LA (virtual presentation due to COVID-19).

Summit, A. G. & Noel, N. E. (2020, November). *Motive and gender as factors in college students' views of nonmedical prescription stimulant use*. The Association for Behavioral and Cognitive Therapies, Philadelphia, PA (virtual presentation due to COVID-19).

Research Experience

Lab Member | Pain Research Laboratory 2024 – Present
Department of Psychology | Indiana University Indianapolis
Advisor: Adam Hirsh, Ph.D.

- Participated and presented in weekly lab meetings

Lab Member | Developmental Psychopathology Lab 2021 – Present
Department of Psychological and Brain Sciences | Indiana University
Advisor: Brian D'Onofrio, Ph.D.

- Participated and presented in weekly lab meetings

Doctoral Student | Mechanisms of Substance Use Research Group 2021 – Present
Department of Applied Health Science | School of Public Health | Indiana University
Advisor: Patrick Quinn, Ph.D.

- Co-managed research lab and mentored undergraduate research assistants
- Extracted and analyzed data from population-based health registers
- Implemented quantitative modeling and analyses using SAS, Mplus, and R Studio

Research Assistant Spring 2021
School of Nursing | University of North Carolina Wilmington
Advisor: Meen Hye Lee, Ph.D., RN

- Conducted literature reviews
- Revised manuscripts for resubmission

Master's Student | Behavioral Examination of Alcohol, Caffeine and Health Lab 2019 – 2021
Department of Psychology | University of North Carolina Wilmington
Advisor: Nora Noel, Ph.D.

Thesis: Exploring modifiable risk factors of nonmedical prescription stimulant use among college undergraduates: a replication and extension

- Co-managed the research lab and mentored undergraduate research assistants
- Collected primary data among college students
- Created participant surveys using Qualtrics
- Implemented quantitative analyses using SPSS and R Studio

Graduate Assistant 2019 – 2020
Center for the Support for Undergraduate Research and Fellowships |
University of North Carolina Wilmington

- Printed large-scale research posters
- Led workshops on best practices for designing research posters
- Assisted with organizing undergraduate research showcases

Honors Thesis | Behavioral Examination of Alcohol, Caffeine and Health Lab 2018 – 2019
Department of Psychology | University of North Carolina Wilmington
Advisor: Nora Noel, Ph.D.

Thesis: *Assessing motive and gender as factors in college students' views of nonmedical prescription stimulant use*

- Designed original research project
- Collected primary data among college students
- Implemented quantitative analyses using SPSS
- Defended thesis in front of Honors Committee

Research Assistant | Behavioral Examination of Alcohol, Caffeine and Health Lab 2017 – 2018
Department of Psychology | University of North Carolina Wilmington
Advisor: Nora Noel, Ph.D.

- Assisted with data collection and experimental measure implementation (e.g., The Affect Misattribution Procedures via PsychoPy)
- Gathered participant responses via recording equipment
- Transcribed qualitative data
- Extracted patient record data for Excel spreadsheets
- Presented a poster for the University of North Carolina Wilmington's Fall Student Research and Creativity Showcase
- Presented and critiqued research articles in weekly lab meeting discussions

Clinical Experience

Graduate Assistant 2020 – 2021
Crossroads: Alcohol and other Drug Prevention and Education Program |
University of North Carolina Wilmington

- Received training in harm reduction approaches to substance use (i.e., BASICS)
- Administered mandatory four-week one-on-one sessions to sanctioned college students
- Implemented motivational interviewing strategies for reducing substance use
- Reported on student outcomes and maintained student records

Teaching Experience

Instructor of Record

Psychology as a Science and Career (PSY 106) | Fall 2020 – Spring 2021
University of North Carolina Wilmington

Teaching Assistant

Writing in Public Health (SPH-H 360) | Indiana University Fall 2023 – Present

Stress Management (SPH-H 180) | Indiana University Summer 2023

Personal Health (SPH-H 263) | Indiana University Spring 2022

Introduction to Statistics for Behavioral Science (PSY 225) | Spring 2020
University of North Carolina Wilmington

Social Psychology (PSY 264) | University of North Carolina Wilmington Fall 2019

Invited and Guest Lectures

SPH-H 750: Professional Development Indiana University “Panel of senior PhD students: Words of wisdom, sage advice on wins and pitfalls.”	Fall 2024
SPH-H 750: Professional Development Indiana University “Grants as a doctoral student: It’s never too early to be grant writing!”	Fall 2024
SPH-H 318: Drug Use in American Society Indiana University “Substance Use Policy in the United States”	Fall 2022

Professional Service

<u>Editorial Boards</u>	2025-2026
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Guest Associate Editor, *Translational Issues in Psychological Science*, Special Issue: Substance Use and Addiction.

Ad Hoc Peer Review

BMC Psychiatry
Substance Use and Misuse

Honors and Awards

Student Travel Award , Department of Applied Health Science School of Public Health Indiana University	2025
Best Abstract Finalist , Psychosocial Factors and Interventions Special Interest Group US Association for the Study of Pain	2024
Student Travel Award , Department of Applied Health Science School of Public Health Indiana University	2024
Student Travel Award , Department of Applied Health Science School of Public Health Indiana University	2023
Love of Learning Award , Phi Kappa Phi	2019
Cape Fear Area Psychological Association Award , Department of Psychology University of North Carolina Wilmington	2019
Williams Jackson Merit Psychology Scholarship , Department of Psychology University of North Carolina Wilmington	2017 – 2018
Dean’s List , University of North Carolina Wilmington	2016 – 2019

Memberships

Professional Organizations

Society of Addiction Psychology	2023 – Present
Association for Women in Science	2022 – Present
National Alliance for Mental Illness	2017 – 2019

Honorary Societies

Phi Kappa Phi	2019 – 2020
Psi Chi International Honors Society	2017 – 2018
Phi Eta Sigma	2016 – 2017

Selected Media Coverage

Indiana University School of Public Health [Press Release] “Doctoral student awarded \$98k to jumpstart a research career on substance use and chronic pain”	September 2024
OUCH! Talking Pain with the US Association for the Study of Pain [Podcast] “2024 Annual Meeting: Poster Excerpts, Part 1”	June 2024

References

Patrick Quinn, Ph.D.
Associate Professor, School of Public Health, Department of Applied Health Science
Indiana University
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Brian D’Onofrio, Ph.D.
Professor, Department of Psychological and Brain Science
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Kit Elam, Ph.D.
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Nora Noel, Ph.D.
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