

# Curriculum Vitae of Dr. Sarah S. Tonkin

September 9<sup>th</sup>, 2023

## Contact Information

655 Research Parkway Oklahoma City, OK 73104 | Email: sarah-tonkin@ouhsc.edu

---

## Education

- 2015-2022 M.A, Ph.D., Clinical Psychology  
SUNY: University at Buffalo  
Research Advisor: Dr. Larry Hawk, Jr.  
Dissertation Defense Date: 11/12/2021      Graduation Date: 7/2022  
Dissertation: *Smoking Cessation Treatment Mechanisms: Evaluating Withdrawal Relief as a Mediator of Varenicline Efficacy*
- 2021-2022 Pre-Doctoral Intern, Clinical Psychology  
University of Texas Health Science Center-Houston  
Research Advisor: Dr. Angela Heads
- 2013-2014 Non-Degree Post-Baccalaureate  
The University of Pennsylvania
- 2008-2012 B.S., Psychology with Biology Minor, Magna Cum Laude  
The Pennsylvania State University

## Research Positions

- 2022-Present *Postdoctoral Research Fellow, University of Oklahoma-Oklahoma City, OK*  
PIs: Drs. Michael Businelle and Jason Oliver
- 2015-2021 *Graduate Research Assistant, University at Buffalo-Buffalo, NY*  
PI: Dr. Larry Hawk, Jr.  
Funding: R01 CA206193-05 (NIH/NCI); U01 DA20830 (NIH/NIDA)
- 2013-2015 *Research Coordinator, University of Pennsylvania-Philadelphia, PA*  
PI: Dr. Caryn Lerman  
Funding: R01 CA170297 (NIH/NCI); R01 DA030819 (NIH/NIDA)
- 2012-2013 *Research Assistant, University of Pennsylvania-Philadelphia, PA*  
PI: Dr. Caryn Lerman  
Funding: R01 CA170297 (NIH/NCI); R01 DA030819 (NIH/NIDA)
- 2010-2012 *Research Assistant, Penn State University-University Park, PA*  
PI: Dr. Stephen Wilson
- 2010 *Research Intern, Johns Hopkins University-Baltimore, MD*  
PI: Dr. Gail Daumit

## **Publications**

### **Peer-Reviewed Research Articles**

**Tonkin, S.,** Kezbers, K., Noble, B., Cropsey, K., Kendzor, D., Oliver, J., & Businelle, M. (2023). Comparison of the Bluetooth iCOquit, piCO, and Vitalograph for the Assessment of Breath Carbon Monoxide among Adults Initiating Smoking Cessation and Standardized Canisters. *Drug and Alcohol Dependence*, 250, 110902. DOI: <https://doi.org/10.1016/j.drugalcdep.2023.110902>

**Tonkin S.,** Gass J., Wray J., Maguin E., Mahoney M., Colder C., Tiffany S., Hawk Jr LW. (2023). Evaluating Declines in Compliance with Ecological Momentary Assessment in Longitudinal Health Behavior Research: Analyses from a Clinical Trial. *Journal of Medical Internet Research*. 2023; 25:e43826. DOI: <https://doi.org/10.2196/43826>

**Tonkin S.,** Colder, C., Mahoney, M., Swan, G., Cinciripini, P., Schnoll, R., George, T., Tyndale, R., & Hawk, L. (2022). Evaluating Treatment Mechanisms of Varenicline: Mediation by Affect and Craving. *Nicotine & Tobacco Research*, 24(11), 1803–1810. DOI: <https://doi.org/10.1093/ntr/ntac138>

Ferkin, A.C., **Tonkin, S.S.,** Maguin, E., Mahoney, M.C., Colder, C.R., Tiffany, S.T., & Hawk, Jr., L.W. (2022). A psychometric evaluation of the Stanford Expectations of Treatment Scale (SETS) in the context of a smoking cessation trial. *Nicotine & Tobacco Research*, 24(12), 1914–1920. DOI: <https://doi.org/10.1093/ntr/ntac187>

Lawson, S.C., Gass, J.C., Cooper, R.K., **Tonkin, S.S.,** Colder, C.R., Mahoney, M.C., Tiffany, S.T., & Hawk, L.W., Jr. (2021). The impact of three weeks of pre-quit varenicline on reinforcing value and craving for cigarettes in a laboratory choice procedure. *Psychopharmacology*, 238, 599–609. DOI: <https://doi.org/10.1007/s00213-020-05713-7>

**Tonkin, S. S.,** & Hawk Jr, L. W. (2020). Preliminary evaluations of habituation of operant responding for sensory stimuli in humans. *Behavioural processes*, 178, 104159. DOI: <https://doi.org/10.1016/j.beproc.2020.104159>

Cooper, R. K., Lawson, S. C., **Tonkin, S. S.,** Ziegler, A. M., Temple, J. L., & Hawk, L. W. (2020). Caffeine enhances sustained attention among adolescents. *Experimental and Clinical Psychopharmacology*, 29(1), 82–89. DOI: <https://doi.org/10.1037/pha0000364>

**Tonkin, S.,** Williams, T., Simms, L., Tiffany, S., Mahoney, M., Schnoll, R., Cinciripini, P., & Hawk, L., Jr. (2020). Withdrawal symptom, treatment mechanism, and/or side effect? Developing an explicit measurement model for smoking cessation research. *Nicotine and Tobacco Research*, 22(4), 482-491. DOI: <https://doi.org/10.1093/ntr/nty262>

### **Research Articles Under Review**

Gass, J.C., **Tonkin, S.S.,** Colder, C.R., Maguin, E., Tiffany, S.T., Mahoney, M.C., & Hawk Jr, L. W. (under revision). Evaluating the impact of payment reinforcement schedules on ecological momentary assessment adherence of smokers enrolled in a tobacco cessation trial.

Businelle, M. S., Hébert, E. T., Shi, D., Benson, L., Kezbers, K. M., **Tonkin, S.,** Piper, M. E., & Qian, T. (under review). Project Exemplar: Using a factorial design to determine the best practices for ecological momentary assessment.

## **Presentations**

### **Invited Addresses**

**Tonkin S.S.** (2021) *“How is this going to Help me Quit?” Identifying Barriers and Mediators of Addiction Interventions.* TSET Health Promotion Research Center Seminar Series at The University of Oklahoma Health Sciences Center.

**Tonkin S.S.** (2021) *“How is this going to Help me Quit?” Identifying Barriers and Mediators of Addiction Interventions.* T32 Applicant Seminar for Center for Technology and Behavioral Health at Dartmouth College.

**Tonkin, S.S.,** Gass, J.C., Wray, J.M., Maguin, E., Mahoney, M.C., Colder, C.R., Tiffany, S.T., & Hawk Jr, L.W. (2020). *Targeting declines in ecological momentary assessment (EMA) compliance during a smoking quit attempt: Identifying predictors and altering payment.* The Ohio State University College of Medicine and Nationwide Children’s Connect & Learn Webinar Series on Digital Methods in Behavioral Research.

### **Symposia**

**Tonkin, S.,** Dowd, A., Betts, J., Colder, C., Mahoney, M., Cinciripini, P., Schnoll, R., George, T., Tyndale, R., & Hawk, L (2023). *Daily cigarette abstinence and reduction with varenicline: Relationships with affect, craving, and treatment during the first week of the quit.* Paper presentation at the annual meeting of the Society for Research on Nicotine and Tobacco in San Antonio, TX.

### **Poster Presentations**

**Tonkin, S.,** Kendzor, D., Frank-Pearce, S., Vidrine, D., Hébert, E., Vesely, S., Boozary, L., Oliver, J., & Businelle, M. (submitted). *Depressive symptoms and difficulties initiating cessation on the target quit day: A mechanistic evaluation of pre-quit stress among adults with low income.* Abstract submitted to the annual meeting of the Society for Research on Nicotine and Tobacco in Edinburgh, Scotland.

Boozary, L., Chen, S., Chen, M., Sifat, M., Alexander, A., Ogunsanya, M., **Tonkin, S.,** Oliver, J., Businelle, M., Wetter, D., & Kendzor, D. (submitted). *Daily Smartphone-Assessed Discrimination is Associated with a Decreased Likelihood of Abstinence Among Adults Participating in Smoking Cessation Treatment.* Abstract submitted to the annual meeting of the Society for Research on Nicotine and Tobacco in Edinburgh, Scotland.

Hawk, L., Cooper, R., **Tonkin, S.,** Wray, J., Johnstone, S., Knapp, K., Maguin, E., Ashare, R., Brandon, T., Colder, C., Tiffany, S., & Mahoney, M. (submitted). *Pre-quit changes in smoking rate mediate smoking cessation outcomes in a randomized clinical trial of extended pre-quit varenicline.* Abstract submitted to the annual meeting of the Society for Research on Nicotine and Tobacco in Edinburgh, Scotland.

Cooper, R., **Tonkin, S.,** Wray, J., Johnstone, S., Knapp, K., Maguin, E., Ashare, R., Brandon, T., Colder, C., Tiffany, S., Mahoney, M., & Hawk, L. (submitted). *An evaluation of pre-quit changes in craving and withdrawal as candidate mediators of smoking cessation outcomes in a randomized clinical trial of extended pre-quit varenicline.* Abstract submitted to the annual meeting of the Society for Research on Nicotine and Tobacco in Edinburgh, Scotland.

Johnstone, S., **Tonkin, S.**, Wray, J., Cooper, R., Knapp, K., Maguin, E., Colder, C., Mahoney, M., Tiffany, S., & Hawk, L. (submitted). *Assessing Sex-Specific Effects of Varenicline on Pre-Quit Cigarette Craving and Consumption*. Abstract submitted to the annual meeting of the Society for Research on Nicotine and Tobacco in Edinburgh, Scotland.

Hubbard, A., Cooper, R., **Tonkin, S.**, Wray, J., Maguin, E., Colder, C., Mahoney, M., Tiffany, S., & Hawk, L. (submitted). *Breaking Blind: Perceived Treatment Assignment Across the Pre-Quit Period of a Placebo-Controlled Trial of Varenicline for Smoking Cessation*. Abstract submitted to the annual meeting of the Society for Research on Nicotine and Tobacco in Edinburgh, Scotland.

**Tonkin, S.**, & Heads, A. (2022). *HIV Testing Barriers among Ethnically and Racially Diverse Women: An Examination of Medical Mistrust, Discrimination, and Substance Use*. Poster presented at the International Women's Group Conference in Minneapolis, MN.

Hong, J.H., de Dios, C., Balderas, J.C., **Tonkin, S.S.**, Suchting, R., Walss-Bass, C., & Meyer, T.D. (2022). *Types of Traumatic Experiences in Drug Overdose-Related Deaths: An Exploratory Latent Class Analysis*. Poster presented at the College on Problems of Drug Dependence Annual Scientific Meeting in Minneapolis, MN.

**Tonkin, S.**, Colder, C., Mahoney, M., Swan, G., Cinciripini, P., Schnoll, R., George, T., Tyndale, R., Lerman, C., & Hawk, L. (2022). *Smoking cessation treatment mechanisms: Evaluating withdrawal relief as a mediator of varenicline efficacy*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco in Baltimore, MD.

Ferkin, A., Maguin, E., **Tonkin, S.**, Wray, J., Colder, C., Tiffany, S., Mahoney, M., & Hawk, L. (2022). *Improving assessment of treatment outcome expectancies in smoking cessation trials: A psychometric evaluation of the Stanford Expectations of Treatment Scale (SETS)*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco in Baltimore, MD.

Gass, J., **Tonkin S.**, Maguin, E., Colder, C., Mahoney M., & Hawk, L. (2020). *Advancing the translational science of real world, real time data capture*. Poster presented at the 2020 Clinical and Translational Research Virtual Colloquium.

**Tonkin S.**, Mahoney, M., Swan, G., Cinciripini, P., Schnoll, R., Tyndale, R., Lerman, C., & Hawk, L. (2020). *Evaluation of treatment mechanisms for varenicline: Preliminary evidence from a randomized clinical trial*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco in New Orleans, LA.

Ferkin, A., **Tonkin S.**, Schlienz, N., Mahoney M., Colder, C., Tiffany, S., Wray J., Ashare, R., Tyndale, R., & Hawk, L. (2020). *The time course of saliva varenicline concentrations during smoking cessation: Initial data from a randomized clinical trial*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco in New Orleans, LA.

Gass, J., Wray J., **Tonkin S.**, Maguin, E., Ashare, R., Mahoney M., Colder, C., Tiffany, S., & Hawk, L. (2020). *Adherence across eight weeks of ecological momentary assessment in treatment-seeking tobacco smokers: Time course and moderators*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco in New Orleans, LA.

**Tonkin, S.**, Williams, T., Simms, L., Tiffany, S., Hawk, L. (2019). *What do we measure when smokers quit? Identifying smoking cessation constructs using an explicit measurement model*. Poster presented at the Annual Meeting of the Society for Research in Psychopathology in Buffalo, NY.

Cooper, R.K., Lawson, S., Phyto, W., Jusko, M., **Tonkin, S.**, Ziegler, A., Temple, J., Hawk, L.W. (2019). *Caffeine enhances sustained attention among adolescents*. Poster presented at the College on Problems of Drug Dependence Annual Scientific Meeting in San Antonio, TX.

Lawson, S., Gass, J., Cooper, R., **Tonkin, S.**, Mahoney, M., Tiffany, S., Colder, C., Hawk, L. (2019). *The effect of three weeks of pre-quit varenicline on tobacco craving and reinforcing value in a laboratory choice procedure*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco in San Francisco, CA.

**Tonkin, S.** & Hawk, L. (2018). *Repetitive reinforcement effects and the role of habituation*. Poster presented at the annual meeting of the Association for Psychological Science in San Francisco, CA.

**Tonkin, S.**, Williams, T., Hawk, L., Simms, L., Tiffany, S., Schnoll, R., Cinciripini, P., Mahoney, M. (2018). *Evaluating the structure of withdrawal, craving, affect, and side effects during smoking cessation*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco in Baltimore, MD.

**Tonkin, S.**, Hamilton-Munoz, D., Schlienz, N., Fosco, W., Jusko, M., O'Connor, R., Mahoney, M., Hawk, L. (2017). *The factor structure of the cigarette purchase task among treatment-seeking smokers*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco in Florence, Italy.

Ashare, R., Lerman, C., **Tonkin, S.**, Ruparel, K., Cao, W., Falcone, M., . . . Loughhead, J. (2015). *Effects of APOE ε4 allele on abstinence-induced alterations in working memory function in healthy smokers*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco in Philadelphia, PA.

**Tonkin, S.**, Love, J., Wede, J., and Hunt, C. (2012). *Psych Squad: Development of a non-traditional psychology club*. Poster presented at the annual meeting of the Eastern Psychological Association in Pittsburgh, PA.

## **Grants**

2020            *Student Grant Competition, Association for Psychological Sciences (APS)*  
Peer-reviewed research seed grant (\$500)

## **Awards**

2020            *Bugelski Dissertation Award Runner-Up, SUNY Buffalo*  
Competitive award based on dissertation significance and academic achievement (\$600)

2020            *Outstanding Research Travel Award, SUNY Buffalo*  
Psychology Graduate Student Association conference presentation award (\$100)

2015-2019    *Dean's Scholarship Recipient, SUNY Buffalo*  
Competitive graduate scholarship (\$4000/year)

2009-2012    *Chaiken Scholarship Recipient, Penn State University*  
Competitive undergraduate scholarship (\$3000/semester)

## **Teaching Positions**

- 2021 *Teaching Assistant, Sociology Summer Research Institute-Buffalo NY*  
*Course: Introduction to Structural Equation Modeling Workshop*
- 2015-2017,  
2021 *Teaching Assistant, University at Buffalo-Buffalo, NY*  
*Courses: Introductory Psychology, Clinical Psychology, Social Psychology, Structural Equation Modeling*
- 2015 *Recitation Instructor/Teaching Assistant, University at Buffalo-Buffalo, NY*  
*Course: Psychological Statistics*
- 2011 *Teaching Assistant, Penn State University-University Park, PA*  
*Course: Introductory Psychology*

## **Clinical Experience**

- 2022 *Trauma and Resilience Center, UTHealth Houston*  
*Responsibilities: Provided assessments (MINI, PCL5) and individual therapy (CPT, PE, TF-CBT, COPE, BA) for traumatic stress and co-occurring psychopathology for child and adult clients via telehealth.*
- 2021-2022 *Center for Neurobehavioral Research on Addiction, UTHealth Houston*  
*Responsibilities: Provided assessments (SCID, KMSK, ASI) and individual therapy (CBT, ACT, MI, DBT) for substance use disorders and co-occurring psychopathology at an outpatient clinic.*
- 2021 *Harris County Psychiatric Center, UTHealth Houston*  
*Responsibilities: Provided assessments (SCID, PAI, RBANS, MoCA), brief individual therapy, and group therapy for severe psychopathology (psychosis, mood disorders, bipolar disorders, personality pathologies, substance use disorders, PTSD) at an inpatient hospital. Provided supervision to practicum students and medical residents.*
- 2015-2021 *Psychological Services Center, SUNY Buffalo*  
*Responsibilities: Provided evidence-based assessment (SCID, CAT-PD, MMPI, WAIS-IV, WASI, WJ-Cog, WRAT4, WIAT-III, WJ-Ach) and therapy (CBT, ACT, BA, DBT, Mindfulness-Based CT, UP) for clients with various difficulties including PTSD, ADHD, depression, anxiety, and personality pathology both in person and via telehealth. Provided peer-supervision.*
- 2018-2021 *Extinguishing Cigarette Smoking via Extended Pre-Quit Varenicline, SUNY Buffalo*  
*Responsibilities: Provided brief smoking cessation counseling including motivational enhancement, craving management, and relapse prevention for participants in a clinical trial both in person and via telehealth.*
- 2018-2020 *Chemical Dependency Unit, Erie County Medical Center*  
*Responsibilities: Conducted motivational interviews focusing on goals for sobriety and self-help groups for clients on an inpatient rehabilitation unit and provided peer supervision.*

- 2018-2019 *Narrative Exposure Therapy (NET)-PowerNET, Compass House/SUNY Buffalo*  
*Responsibilities:* Administered diagnostic interviews (MINI) and provided narrative exposure therapy for high-risk adolescents with PTSD in a youth homelessness shelter/community center.
- 2013-2014 *The Center for Interdisciplinary Research on Nicotine Addiction, UPenn*  
*Responsibilities:* Administered diagnostic interviews (MINI) and provided brief smoking cessation counseling for individuals participating in a clinical trial.

### **Professional Memberships**

Association for Psychological Sciences

Society for Research on Nicotine and Tobacco

The College on Problems of Drug Dependence

American Psychological Association

Divisions 12 (Clinical Psychology)

Division 28 (Psychopharmacology and Substance Abuse)

Division 50 (Addiction Psychology)

### **Workshops**

- 2022 *Multilevel Modeling*  
5-day workshop led by Drs. Daniel Bauer and Patrick Curran covering the application, analysis, and interpretation of multilevel models.
- 2021 *Cognitive Processing Therapy and Prolonged Exposure Therapy for PTSD*  
4-day workshop by the Strong Star training initiative providing an introduction to evidence-based treatments for PTSD and hands-on practice of CPT and PE protocols.
- 2020 *Longitudinal Structural Equation Modeling*  
5-day workshop led by Drs. Daniel Bauer and Patrick Curran covering the application, analysis, and interpretation of latent curve models.
- 2020 *Grants and External Funding Seminar*  
2-part seminar led by Dr. Michelle Zaso providing a background on available funding sources and how to write compelling, competitive grants.
- 2018 *Narrative Exposure Therapy (NET) for PTSD*  
3-day workshop led by Drs. Carrie Hanson and Chris Mehus providing an introduction and hands-on practice of the NET protocol for PTSD associated with multiple traumatic events.
- 2018 *Acceptance and Commitment Therapy (ACT) Summer Seminar*  
2-month summer seminar series led by Drs. Kristin Gainey and Sarah Taber-Thomas covering relational frame theory, individual components of the hexaflex, and clinical application of ACT through vignettes and roleplays.

2018 *Motivational Interviewing (MI) Workshop*

Half-day workshop led by Dr. Nadine Mastroleo covering theory, application, and practice of MI through roleplays.

### **Certifications**

IRB Human Research Participants Protection Certification: CITI and HIPPA certified

American Heart Association: CPR and AED certified

### **Departmental Service**

2017-2021 Graduate Studies Committee, Student Representative

2018-2019 Clinical Psychology Area, Student Representative

### **Organizational Service**

2021-Present Society for Research on Nicotine and Tobacco, Treatment Network Communications Committee Operations Coordinator

### **Editorial Service**

Ad-hoc Reviewer: *Nicotine and Tobacco Research; Substance Use and Misuse; International Journal of Environmental Research and Public Health*

2022-2024 Abstract Reviewer: *Annual meeting of the Society for Research on Nicotine and Tobacco*

Mentored Reviewer: *Addiction; Nicotine and Tobacco Research; Drugs: Education, Prevention & Policy; Psychopharmacology; American Journal of Preventive Medicine*