

FRANK R WENDT, PHD

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Associate Research Scientist & 2021-2022 Fellow of The Franke Program in Science and the Humanities
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EDUCATION

- 2014-2018 **Doctor of Philosophy in Biomedical Science (Molecular Genetics)**
Graduate School of Biomedical Science, University of North Texas Health Science Center, Fort Worth, TX
- 2009-2013 **Bachelor of Science in Forensic Science (Biology/Biochemistry)**
The Pennsylvania State University, University Park, PA

RESEARCH EXPERIENCE

- Feb 2022-present **Associate Research Scientist** (non-tenure track faculty), Department of Psychiatry, Yale School of Medicine & VA CT Healthcare System, New Haven, CT
- May 2020-Jan 2022 **Ruth L. Kirschstein National Research Service Award Postdoctoral Fellow** (National Institute for Mental Health), Department of Psychiatry, Yale School of Medicine & VA CT Healthcare System, New Haven, CT
Mentor: Dr. Renato Polimanti; Co-Mentor: Dr. Joel Gelernter
- Sept. 2018-April 2020 **Postdoctoral Associate**, Department of Psychiatry, Yale School of Medicine & VA CT Healthcare System, New Haven, CT
Mentor: Dr. Renato Polimanti
- 2014-2018 **PhD Candidate**, Department of Microbiology, Immunology, and Genetics & Center for Human Identification, UNT Health Science Center, Fort Worth, TX
Mentor: Dr. Bruce Budowle
- 2011-2014 **Undergraduate Researcher**, Penn State Forensic Science Program, University Park, PA
Supervisor: Dr. Mitchell M. Holland
- 2010-2011 **Undergraduate Researcher**, Division of Mathematics and Natural Sciences, Penn State University, Altoona, PA
Supervisor: Dr. Corien Bakermans

TEACHING EXPERIENCE

- 2019-present **Tool School**
Division of Human Genetics, Department of Psychiatry, Yale School of Medicine, New Haven, CT
Supervisors: designed as peer-to-peer discussion, faculty supervisors not present
- Deliver chalk-talk style lectures to postdoctoral trainees, medical residents, and associate research scientists in the division to help troubleshoot, introduce new topics, and revisit the basics underlying ubiquitous topics
 - Organize schedule of talks, identify appropriate division member(s) to deliver material, organize recordings/notetaking as a resource for future trainees
- Spring 2018 **Personalized Medicine**
UNT System College of Pharmacy, Fort Worth, TX
Supervisors: Drs. Nicole Phillips and Robert Barber
- Presented two 1-hour lectures to pharmacy students about the role of genetics in personalized medication response
- Summer 2016, 2017 **Teaching Assistant, Biostatistics**
M.S. degree program in Medical Sciences, UNT Health Science Center, Fort Worth, TX
Supervisor: Drs. John Planz and Meharvan Singh
- Lectured material to approximately 250 students
 - Held weekly tutoring for approximately 25 students per week
 - Lead discussion of peer-feedback for student-centered examination design
- Spring 2014 **Teaching Assistant, Essential Practices of Forensic Science**
Penn State Forensic Science Program

- Supervisor: Mr. Ralph R. Ristenbatt
- Provided 1-on-1 and group didactic instruction for ~200 students
 - Wrote, graded, and administered exams
- Aug. 2012-May 2014 **Teaching Assistant, A Scientific Approach to Crime Scene Investigation (lecture and lab)**
Penn State Forensic Science Program
Supervisor: Mr. Ralph R. Ristenbatt
- Provided 1-on-1 and group didactic instruction for ~25 students per semester
 - Constructed mock crime scenes, demonstrated proper evidence handling, graded student laboratory reports
- Summer 2014 **Course Instructor, Sexual Assault Nurse Examiner/Sexual Assault Response Team (SANE/SART) Training**
PSU Nursing Program
Supervisor: Dr. Reena Roy
- Designed a one-week short course on serology and DNA analysis for 50 nursing students at all stages of undergraduate training
 - Created and instructed the interpretation of mock serology and DNA analysis reports
- Aug. 2012-May 2013 **Teaching Assistant, Criminalistics: Serology/Biology**
Penn State Forensic Science Program
Supervisor: Dr. Reena Roy
- Presented 30-minute lectures at the start of each laboratory to introduce the experiment and concepts
 - Conducted tutoring sessions for approximately 30 students prior to exams (approximately once per month)
- Summer 2013 **Course Instructor, Pennsylvania District Attorney's Office Crime Scene Investigation Training**
Penn State Forensic Science Program
Supervisor: Mr. Ralph Ristenbatt
- Built a 1-week course for attorneys to learn about the processing of biological, chemical, and pattern evidence from crime scenes
- Summer 2013 **Course Instructor, Animal Death Investigation Training**
Penn State Animal Diagnostics Laboratory
Supervisors: Mr. Ralph Ristenbatt and Dr. Jason Brooks
- Taught a 1-month course on photography principles and evidence collection to 10 animal death investigators
- Summer 2013 **Course Instructor, International Police Education and Training Program**
International Association of Chiefs of Police & the Bureau of International Narcotics and Law Enforcement Affairs
Supervisors: Dr. Mitchell M Holland & Mr. Ralph Ristenbatt
- Put together a 1-week course to the General Directorate for National Security (main state policing body for the country of Morocco) covering evidence processing, note-taking, and case organization/management

PROFESSIONAL HONORS & RECOGNITIONS

2021-2022	Fellow of The Franke Program in Science and the Humanities at Yale	3.0k
2021	"Best Presentation" award from the United States Department of Veteran Affairs Million Veteran Program Science Meeting	-
2021	Travel Award from Yale Center for the Study of Race, Indigeneity, and Transnational Migration (sponsorship for 2021 ASHG Meeting)	0.25k
2021	Nominee as <i>early career ad hoc reviewer</i> to the MVP Presentation and Publication Committee	-
2020	Million Veteran Program Early Career Investigator Award	-
2020	Finalist, Tourette Association of America Young Investigator Award	-
2019	Finalist, Thrasher Research Fund Early Career Award	-
2019	Million Veteran Program Early Career Investigator Award	-
2019	Reviewers' Choice abstract at American Society of Human Genetics	-
	Scored in top 10% of nearly 3,000 submitted abstracts	

2019	Early Career Investigator Program Award from World Congress of Psychiatric Genetics	-
2018	Texas Public Education Grant for Non-Residents	5.0k
2018	Rachel Dauphin Memorial Scholarship	0.5k
2017 & 2018	Graduate Student Association Outstanding Membership Award	0.3k
2018	Graduate Student Association Scholarship	0.5k
2017	UNTHSC Division of Human Affairs Scholarship	0.3k
2016 & 2017	UNTHSC Graduate Student Travel Award	0.5k
2017	Outstanding Graduate Student in Molecular Genetics (UNTHSC)	0.5k
2017	Nominee as Student Representative to the UNT System Board of Regents	-
2017	Nominee as Student Representative to the Texas Higher Education Coordinating Board	-

GRANT HISTORY (completed)

May 2020-Jan. 2022	NRSA Individual Postdoctoral Fellowship (PI: Wendt FR) National Institute of Mental Health F32 MH122058: <i>Decoding the sex-specific biological mechanisms of psychiatric disorders using genome-wide analyses</i> Direct costs: \$126,264 Sponsor team: Renato Polimanti, Joel Gelernter, Karestan Koenen, Sarah Tishkoff, Hongyu Zhao
	<ul style="list-style-type: none"> Use genome-wide methods to elucidate biological mechanisms responsible for sex-specific manifestation of psychiatric disorders and their comorbidities.

PUBLISHED ORIGINAL RESEARCH (h-index 17; i10-index 23; ResearchGate 37.61)

- **Wendt FR**, Warriar V, Pathak GA, Koenen KC, Stein MB, Krystal JH, Pietrzak R, Gelernter R, Goldfarb EV, Baron-Cohen S, Polimanti R. Higher polygenic scores for empathy increase posttraumatic stress severity in response to certain traumatic events. medRxiv doi: <https://doi.org/10.1101/2021.07.26.21261139>. In press *Neurobiology of Stress*.
- **Wendt FR**, Pathak GA, Deak JD, De Angelis F, Koller D, Cabrera-Mendoza B, Lebovitch DS, Levey DF, Stein MB, Kranzler HR, Koenen KC, Gelernter J, Huckins LM, Polimanti R. Using phenotype risk scores to enhance gene discovery for generalized anxiety disorder and posttraumatic stress disorder. *Mol Psychiatry*. 2022 Feb 18. doi: 10.1038/s41380-022-01469-y. Online ahead of print. PMID: 35181757.
- Pathak GA, Singh K, **Wendt FR**, Flemming TW, Overstreet C, Koller D, De Angelis F, Cabrera-Mendoza B, Levey DF, Koenen K, Krystal JH, Pietrzak R, O'Donnell C, Gaziano JM, Falcone G, Stein MB, Gelernter J, Pasaniuc B, Mancuso N, Davis LK, Polimanti R. Genetically regulated multi-omics investigation of prefrontal cortex for symptom clusters of posttraumatic stress disorder highlights pleiotropy with blood and cardio-metabolic traits. In press *Molecular Psychiatry*.
- Peloso GM, Tcheandjieu C, Wu, WC, Posner DC, Zhou JJ, MVP COVID-19 GWAS Working Group, Joseph J, Efir JT, Crawford D, Sun YV, McGearry JE, Arjomandi M, Assimes TL, Huffman JE, VA Million Veteran Program COVID-19 Science Initiative. Genetic Loci Associated With COVID-19 Positivity and Hospitalization in White, Black, and Hispanic Veterans of the VA Million Veteran Program. *Front. Genet.*, 03 February 2022. <https://doi.org/10.3389/fgene.2021.777076>.
 - **Wendt FR** is an analyst in the MVP COVID-19 GWAS Working Group
- Hung AM, Shah SC, Bick AG, Yu Z, Chen HC, Hunt CM, **Wendt FR**, Wilson O, Greevy RA, Chung CP, Suzuki A, Ho YL, Akwo E, Polimanti R, Zhou J, Reaven P, Tsao PS, Gaziano JM, Huffman JE, Joseph J, Luoh SW, Iyengar S, Chang KM, Casas JP, Matheny ME, O'Donnell CJ, Cho K, Tao R, Susztak K, Robinson-Cohen C, Tuteja S, Siew ED; VA Million Veteran Program COVID-19 Science Initiative. APOL1 Risk Variants, Acute Kidney Injury, and Death in Participants With African Ancestry Hospitalized With COVID-19 From the Million Veteran Program. *JAMA Intern Med*. 2022 Jan 28. doi: 10.1001/jamainternmed.2021.8538. Epub ahead of print. PMID: 35089317.
- Pathak GA, De Lillo A, **Wendt FR**, De Angelis F, Koller D, Cabrera Mendoza B, Jacoby D, Miller EJ, Buxbaum JN, Polimanti R. The integration of genetically-regulated transcriptomics and electronic health records highlights a pattern of medical outcomes related to increased hepatic *transthyretin* expression. *Amyloid*. 2021 Dec 22:1-10. doi: 10.1080/13506129.2021.2018678. Epub ahead of print. PMID: 34935565.
- **Wendt FR**, De Lillo A, Pathak GA, De Angelis F, COVID-19 Host Genetics Initiative, Polimanti R. Host Genetic Liability for Severe COVID-19 Associates with Alcohol Drinking Behavior and Diabetic Outcomes in Participants of European Descent. *Frontiers in Genetics*. 2021;12.

- Hatoum AS, **Wendt FR**, Galimberti M, Polimanti R, Neale B, Kranzler HR, Gelernter J, Edenberg HJ, Agrawal A. Ancestry may confound genetic machine learning: Candidate-gene prediction of opioid use disorder as an example. *Drug Alcohol Depend.* 2021 Oct 9;229(Pt B):109115. doi: 10.1016/j.drugalcdep.2021.109115. Epub ahead of print. PMID: 34710714.
- De Angelis F, **Wendt FR**, Pathak GA, Tylee DS, Goswami A, Gelernter J, Polimanti R. Drinking and smoking polygenic risk is associated with childhood and early-adulthood psychiatric and behavioral traits independently of substance use and psychiatric genetic risk. *Transl Psychiatry.* 2021 Nov 13;11(1):586. doi: 10.1038/s41398-021-01713-z. PMID: 34775470.
- Tamman AJF, **Wendt FR**, Pathak GA, Krystal JH, Montalvo-Ortiz JL, Southwick SM, Sippel LM, Gelernter J, Polimanti R, Pietrzak RH. Attachment style moderates polygenic risk for incident posttraumatic stress in U.S. military veterans: a 7-year, nationally representative prospective cohort study. *Biological Psychiatry*, 2021, <https://doi.org/10.1016/j.biopsych.2021.09.025>.
- Na PJ, De Angelis F, Nichter B, **Wendt FR**, Krystal JH, Southwick SM, Levey DF, Gelernter J, Polimanti R, Pietrzak RH. Psychosocial moderators of polygenic risk for suicidal ideation: Results from a 7-year population-based, prospective cohort study of U.S. veterans. *Mol Psychiatry.* 2021 Nov 2. doi: 10.1038/s41380-021-01352-2. Epub ahead of print. PMID: 34725455.
- Carvalho CM, **Wendt FR**, Pathak GA, Maihofer AX, Stein DJ, Sumner JA, Hemmings SMJ, Nievergelt CM, Koenen Muniz Carvalho C, Wendt FR, Pathak GA, Maihofer AX, Stein DJ, Sumner JA, Hemmings SMJ, Nievergelt CM, Koenen KC, Gelernter J, Belangero SI, Polimanti R. Disentangling sex differences in the shared genetic architecture of posttraumatic stress disorder, traumatic experiences, and social support with body size and composition. *Neurobiol Stress.* 2021 Sep 17;15:100400. doi: 10.1016/j.ynstr.2021.100400. PMID: 34611531; PMCID: PMC8477211.
- Patterson C, Gray S, **Wendt FR**, Roy R. Characterizing DNA metal inhibition of human blood samples. In press at *Forensic Science International: Genetics*. doi: <https://doi.org/10.1016/j.fsigen.2021.102598>.
- Pathak GA, **Wendt FR**, Goswami A, De Angelis F, COVID-19 Host Genetics Initiative, Polimanti R. ACE2 Netlas: In-silico functional characterization and drug-gene interactions of ACE2 gene network to understand its potential involvement in COVID-19 susceptibility. *Front. Genetics.* 2021. doi: 10.3389/fgene.2021.698033.
- Pathak GA, Singh K, Miller-Fleming TW, **Wendt FR**, Ehsan N, Hou K, Johnson R, Lu Z, Gopalan S, Yengo L, Mohammadi P, Pasaniuc B, Polimanti R, Davis LK, Mancuso N. Integrative genomic analyses identify susceptibility genes underlying COVID-19 hospitalization. *Nat Comm.* 2021 Jul 27;12(1):4569. doi: 10.1038/s41467-021-24824-z. PMID: 34315903.
- Johnson EC, Kapoor M, Hatoum AS, Zhou H, Polimanti R, **Wendt FR**, Walters RK, Lai D, Kember RL, Hartz S, Meyers JL, Peterson RE, Ripke S, Bigdeli TB, Fanous AH, Pato CN, Pato MT, Goate AM, Kranzler HR, O'Donovan MC, Walters JTR, Gelernter J, Edenberg HJ, Agrawal A. Investigation of convergent and divergent genetic influences underlying schizophrenia and alcohol use disorder. *Psychol Med.* 2021 Jul 7:1-9. doi: 10.1017/S003329172100266X. Epub ahead of print. PMID: 34231451.
- COVID-19 Host Genetics Initiative. Mapping the human genetic architecture of COVID-19. *Nature.* 2021 Jul 8. doi: 10.1038/s41586-021-03767-x. Epub ahead of print. PMID: 34237774.
 - **Wendt FR** contributed to Writing and Analysis section teams (Phenome-wide association study)
- Bountress KE*, **Wendt FR***, Bustamante D, Agrawal A, Webb B, Gillespie N, Edenberg H, Sheerin C, Johnson E; Psychiatric Genomics Consortium Posttraumatic Stress Disorder Working Group, Polimanti R#, Amstadter A#. Potential causal effect of posttraumatic stress disorder (PTSD) on alcohol use disorder and alcohol consumption in individuals of European descent: A Mendelian Randomization Study. *Alcohol Clin Exp Res.* 2021 Jun 12. doi: 10.1111/acer.14649. Epub ahead of print. PMID: 34120358. * = equal contribution; # = equal contribution.
- Tiedge TM, Nagachar N, **Wendt FR**, Lakhtakia A, Roy R. High-throughput DNA Sequencing of Environmentally Insulted Latent Fingerprints after Visualization with Nanoscale Columnar-Thin-Film Technique, *Science & Justice*, 2021, <https://doi.org/10.1016/j.scijus.2021.06.002>.
- Levey DF, Stein MB, **Wendt FR**, Pathak GA, Zhou H, Aslan M, Quaden R, Harrington KM, Nuñez YZ, Overstreet C, Radhakrishnan K, Sanacora G, McIntosh AM, Shi J, Shringarpure SS; 23andMe Research Team; Million Veteran Program, Concato J, Polimanti R, Gelernter J. Bi-ancestral depression GWAS in the Million Veteran Program and meta-analysis in >1.2 million individuals highlight new therapeutic directions. *Nat Neurosci.* 2021 May 27. doi: 10.1038/s41593-021-00860-2. Epub ahead of print. PMID: 34045744.

- De Lillo A, D'Antona S, Pathak GA, **Wendt FR**, De Angelis F, Fuciarelli M, Polimanti R. Cross-ancestry genome-wide association studies identified heterogeneous loci associated with differences of allele frequency and regulome tagging between participants of European descent and other ancestry groups from the UK Biobank. *Hum Mol Genet.* 2021 Apr 22;ddab114. doi: 10.1093/hmg/ddab114. Epub ahead of print. PMID: 33890984.
- **Wendt FR**, Koller D, Pathak GA, Jacoby D, Miller EJ, Polimanti R. Biobank scale pharmacogenomics informs the genetic underpinnings of simvastatin use. *Clin Pharmacol Ther.* 2021 Apr 10. doi: 10.1002/cpt.2260. Epub ahead of print. PMID: 33837531.
- Pathak GA, **Wendt FR**, Levey DF, Mecca AP, van Dyck CH, Gelernter J, Polimanti R. Pleiotropic effects of telomere length loci with brain morphology, and brain tissue expression. *Hum Mol Genet.* 2021 Apr 7;ddab102. doi: 10.1093/hmg/ddab102. Epub ahead of print. PMID: 33831179.
- Asch RH, Esterlis I, **Wendt FR**, Kachadourian L, Southwick SM, Gelernter J, Polimanti R, Pietrzak RH. Polygenic Risk for Traumatic Loss-related PTSD in U.S. Military Veterans: Protective Effect of Secure Attachment Style. *World J Biol Psychiatry.* 2021 Apr 6:1-24. doi: 10.1080/15622975.2021.1907721. Epub ahead of print. PMID: 33821766.
- **Wendt FR**, Pathak GA, Levey DF, Nuñez YZ, Overstreet C, Tyrrell C, Adhikari K, De Angelis F, Tylee DS, Goswami A, Krystal JH, Abdallah CG, Stein MB, Kranzler HR, Gelernter J, Polimanti R. Sex-stratified gene-by-environment genome-wide interaction study of trauma, posttraumatic-stress, and suicidality. *Neurobiol Stress.* 2021 Feb 18;14:100309. doi: 10.1016/j.ynstr.2021.100309. PMID: 33665242; PMCID: PMC7905234.
- Polimanti R, Levey DF, Pathak GA, **Wendt FR**, Nunez YZ, Ursano RJ, Kessler RC, Kranzler HR, Stein MB, Gelernter J. Multi-environment gene interactions linked to the interplay between polysubstance dependence and suicidality. *Transl Psychiatry.* 2021 Jan 11;11(1):34. doi: 10.1038/s41398-020-01153-1. PMID: 33431810.
- Stein MB, Levey DF, Cheng Z, **Wendt FR**, Harrington K, Pathak GA, Cho K, Quaden R, Radhakrishnan K, Girgenti MJ, Ho YA, Posner D, Aslan M, Duman RS, Zhao H; Department of Veterans Affairs Cooperative Studies Program (no. 575B); VA Million Veteran Program, Polimanti R, Concato J, Gelernter J. Genome-wide association analyses of post-traumatic stress disorder and its symptom subdomains in the Million Veteran Program. *Nat Genet.* 2021 Jan 28. doi: 10.1038/s41588-020-00767-x. Epub ahead of print. PMID: 33510476.
- Pathak GA, **Wendt FR**, De Lillo A, Nunez YZ, Goswami A, De Angelis F, Fuciarelli M, Kranzler HR, Gelernter J, Polimanti R. Epigenomic Profiles of African American *Transthyretin* Val122Ile Carriers Reveals Putatively Dysregulated Amyloid Mechanisms. *Circ Genom Precis Med.* 2021 Jan 11. doi: 10.1161/CIRCGEN.120.003011. Epub ahead of print. PMID: 33428857.
- Guevara EK, Palo JU, Översti S, King JL, Seidel M, Stoljarova M, **Wendt FR**, Bus MM, Guengerich A, Church WB, Guillén S, Roewer L, Budowle B, Sajantila A. Genetic assessment reveals no population substructure and divergent regional and sex-specific histories in the Chachapoyas from northeast Peru. *PLoS One.* 2020 Dec 31;15(12):e0244497. doi: 10.1371/journal.pone.0244497. PMID: 33382772.
- **Wendt FR**, Pathak GA, Overstreet C, Tylee DS, Gelernter J, Atkinson EG, Polimanti R. Characterizing the effect of background selection on the polygenicity of brain-related traits. *Genomics.* 2020 Dec 2;113(1 Pt 1):111-119. doi: 10.1016/j.ygeno.2020.11.032. Epub ahead of print. PMID: 33278486.
- **Wendt FR**, Pathak GA, Lencz T, Krystal JH, Gelernter J, Polimanti R. Multivariate genome-wide analysis of education, socioeconomic status and brain phenome. *Nat Hum Behav.* 2020 Dec 21. doi: 10.1038/s41562-020-00980-y. Epub ahead of print. PMID: 33349686.
- Tamman AJF, **Wendt FR**, Pathak GA, Krystal JH, Montalvo-Ortiz JL, Southwick SM, Sippel LM, Gelernter J, Polimanti R, Pietrzak RH. Attachment Style Moderates Polygenic Risk for Posttraumatic Stress in United States Military Veterans: Results From the National Health and Resilience in Veterans Study. *Biol Psychiatry.* 2020 Sep 30:S0006-3223(20)31947-8. doi: 10.1016/j.biopsych.2020.09.018. Epub ahead of print. PMID: 33276944.
- Johnson EC, Demontis D, Thorgeirsson TE, Walters RK, Polimanti R, Hatoum AS, Sanchez-Roige S, Paul SE, **Wendt FR**, Clarke TK, Lai D, Reginsson GW, Zhou H, He J, Baranger DAA, Gudbjartsson DF, Wedow R, Adkins DE, Adkins AE, Alexander J, Bacanu SA, Bigdeli TB, Boden J, Brown SA, Bucholz KK, Bybjerg-Grauholm J, Corley RP, Degenhardt L, Dick DM, Domingue BW, Fox L, Goate AM, Gordon SD, Hack LM, Hancock DB, Hartz SM, Hickie IB, Hougaard DM, Krauter K, Lind PA, McClintick JN, McQueen MB, Meyers JL, Montgomery GW, Mors O, Mortensen PB, Nordentoft M, Pearson JF, Peterson RE, Reynolds MD, Rice JP, Runarsdottir V, Saccone NL, Sherva R, Silberg JL, Tarter RE, Tyrfingsson T, Wall TL, Webb BT, Werge T, Wetherill L, Wright MJ, Zellers S, Adams MJ, Bierut LJ, Boardman JD, Copeland WE, Farrer LA, Foroud TM, Gillespie NA, Gruzca RA, Harris KM, Heath AC, Hesselbrock V, Hewitt JK, Hopfer CJ, Horwood J, Iacono WG, Johnson EO, Kendler KS, Kennedy MA,

- Kranzler HR, Madden PAF, Maes HH, Maher BS, Martin NG, McGue M, McIntosh AM, Medland SE, Nelson EC, Porjesz B, Riley BP, Stallings MC, Vanyukov MM, Vrieze S; Psychiatric Genomics Consortium Substance Use Disorders Workgroup, Davis LK, Bogdan R, Gelernter J, Edenberg HJ, Stefansson K, Børglum AD, Agrawal A. A large-scale genome-wide association study meta-analysis of cannabis use disorder. *Lancet Psychiatry*. 2020 Dec;7(12):1032-1045. doi: 10.1016/S2215-0366(20)30339-4. Epub 2020 Oct 20. PMID: 33096046; PMCID: PMC7674631.
- Pathak GA, Polimanti R, Silzer TK, **Wendt FR**, Chakraborty R, Phillips NR. Genetically-regulated transcriptomics & copy number variation of proctitis points to altered mitochondrial and DNA repair mechanisms in individuals of European ancestry. *BMC Cancer*. 2020 Oct 2;20(1):954. doi: 10.1186/s12885-020-07457-1. PMID: 33008348; PMCID: PMC7530964.
 - **Wendt FR**, Carvalho CM, Pathak GA, Gelernter J, Polimanti R. Polygenic risk for autism spectrum disorder associates with anger recognition in a neurodevelopment-focused phenome-wide scan of unaffected youths from a population-based cohort. *PLoS Genet*. 2020 Sep 17;16(9):e1009036. doi: 10.1371/journal.pgen.1009036. PMID: 32941431; PMCID: PMC7523983.
 - Carvalho CM, **Wendt FR**, Maihofer AX, Stein DJ, Stein MB, Sumner JA, Hemmings SMJ, Nievergelt CM, Koenen KC, Gelernter J, Belangero SI, Polimanti R. Dissecting the genetic association of C-reactive protein with PTSD, traumatic events, and social support. *Neuropsychopharmacology*. 2020 Mar 16; doi: 10.1038/s41386-020-0655-6. PubMed PMID: 32179874.
 - Carvalho CM, **Wendt FR**, Stein DJ, Stein MB, Gelernter J, Belangero SI, Polimanti R. Investigating Causality Between Blood Metabolites and Emotional and Behavioral Responses to Traumatic Stress: a Mendelian Randomization Study. *Mol Neurobiol*. 2019 Nov 30; doi: 10.1007/s12035-019-01823-2. PubMed PMID: 31786776.
 - **Wendt FR**, Carvalho CM, Pathak GA, Gelernter J, Polimanti R. Deciphering the Biological Mechanisms Underlying the Genome-Wide Associations between Computerized Device Use and Psychiatric Disorders. *J Clin Med*. 2019 Nov 21;8(12). doi: 10.3390/jcm8122040. PubMed PMID: 31766499.
 - **Wendt FR**, Novroski NM. Identity informative SNP associations in the UK Biobank. *Forensic Sci Int Genet*. 2019 Sep;42:45-48. doi: 10.1016/j.fsigen.2019.06.007. Epub 2019 Jun 14. PubMed PMID: 31226582.
 - Sherier AJ, Kieser RE, Novroski NMM, **Wendt FR**, King JL, Woerner AE, Ambers A, Garofano P, Budowle B. Copan microFLOQ® Direct Swab collection of bloodstains, saliva, and semen on cotton cloth. *Int J Legal Med*. 2019 Jun 4; doi: 10.1007/s00414-019-02081-6. PubMed PMID: 31165261.
 - **Wendt FR**, Rahikainen AL, King JL, Sajantila A, Budowle B. A genome-wide association study of tramadol metabolism from post-mortem samples. *Pharmacogenomics J*. 2019 Apr 11. doi: 10.1038/s41397-019-0088-y. PubMed PMID: 30971809.
 - **Wendt FR**, Novroski NMM, Rahikainen AL, Sajantila A, Budowle B. A pathway-driven predictive model of tramadol pharmacogenetics. *Eur J Hum Genet*. 2019 Mar 1. doi: 10.1038/s41431-019-0369-6. PubMed PMID: 30824817.
 - Woerner AE, Novroski NMM, **Wendt FR**, Ambers A, Wiley R, Schmedes SE, Budowle B. Forensic human identification with targeted microbiome markers using nearest neighbor classification. *Forensic Sci Int Genet*. 2019 Jan;38:130-139. doi: 10.1016/j.fsigen.2018.10.003. Epub 2018 Oct 5. PubMed PMID: 30396009.
 - **Wendt FR**, Woerner AE, Sajantila A, Moura-Neto RS, Budowle B. Exploring the 1000 Genomes Project haplotype reporting for the *CYP2D6* pharmacogene. *International Journal of Legal Medicine*. 2018 Jun 2. doi: 10.1007/s00414-018-1874-9. PubMed PMID: 29860596.
 - Novroski NMM, **Wendt FR**, Woerner AE, Bus MM, Coble M, Budowle B. Expanding beyond the current core STR loci: An exploration of 73 STR markers with increased diversity for enhanced DNA mixture deconvolution. *Forensic Sci Int Genet*. 2019 Jan;38:121-129. doi: 10.1016/j.fsigen.2018.10.013. Epub 2018 Oct 29. PubMed PMID: 30396008.
 - **Wendt FR**, Novroski NMM, Rahikainen AL, Sajantila A, Budowle B. Supervised Classification of *CYP2D6* Genotype and Metabolizer Phenotype With Postmortem Tramadol-Exposed Finns. *Am J Forensic Med Pathol*. 2018 Nov 29. doi: 10.1097/PAF.0000000000000447. PubMed PMID: 30507617.
 - Woerner AE, Ambers A, **Wendt FR**, King JL, Moura-Neto RS, Silva R, Budowle B. Evaluation of the precision ID mtDNA whole genome panel on two massively parallel sequencing systems. *Forensic Sci Int Genet*. 2018 Sep;36:213-224. doi: 10.1016/j.fsigen.2018.07.015. Epub 2018 Jul 18. PMID: 30059903.

- **Wendt FR**, Sajantila A, Budowle B. Predicted activity of UGT2B7, ABCB1, OPRM1, and COMT using full-gene haplotypes and their association with the *CYP2D6*-inferred metabolizer phenotype. *Forensic Sci Int Genet.* 2018 Mar;33:48-58. doi: 10.1016/j.fsigen.2017.11.012. Epub 2017 Nov 26. PubMed PMID: 29190510.
- **Wendt FR**, King JL, Novroski NM, Churchill JD, Ng J, Oldt RF, McCulloh KL, Weise JA, Smith DG, Kanthaswamy S, Budowle B. Flanking region variation of ForenSeq™ DNA Signature Prep Kit STR and SNP loci in Yavapai Native Americans. *Forensic Science International: Genetics.* 2017 May;28:146-154. doi: 10.1016/j.fsigen.2017.02.014. Epub 2017 Feb 27. PubMed PMID: 28273507.
- Schmedes SE, Woerner AE, Novroski NMM, **Wendt FR**, King JL, Stephens KM, Budowle B. Targeted sequencing of clade-specific markers from skin microbiomes for forensic human identification. *Forensic Sci Int Genet.* 2018 Jan;32:50-61. doi: 10.1016/j.fsigen.2017.10.004. Epub 2017 Oct 18. PMID: 29065388.
- **Wendt FR**, Sajantila A, Moura-Neto RS, Woerner AE, Budowle B. Full-gene haplotypes refine *CYP2D6* metabolizer phenotype inferences. *International Journal of Legal Medicine.* 2017 Oct 26. doi: 10.1007/s00414-017-1709-0. PubMed PMID: 29075918.
- Moura-Neto RS, Mello ICT, Silva R, Maette APC, Bottino CG, Woerner A, King J, **Wendt FR**, Budowle B. Evaluation of InnoTyper® 21 in a sample of Rio de Janeiro population as an alternative forensic panel. *International Journal of Legal Medicine.* 2017 Jul 26. doi: 10.1007/s00414-017-1642-2. PubMed PMID: 28748403.
- Brown H, Thompson R, Murphy G, Peters D, LaRue B, King J, Montgomery AH, Carroll M, Baus J, Sinha S, **Wendt FR**, Song B, Chakraborty R, Budowle B, Sinha SK. Development and validation of a novel multiplexed DNA analysis system, InnoTyper® 21. *Forensic Science International: Genetics.* 2017 Mar 18;29:80-99. doi: 10.1016/j.fsigen.2017.03.017. PubMed PMID: 28391141.
- **Wendt FR**, Pathak G, Sajantila A, Chakraborty R, Budowle B. Global genetic variation of select opiate metabolism genes in self-reported healthy individuals. *The Pharmacogenomics Journal.* 2017 Apr 11. doi: 10.1038/tpj.2017.13. PubMed PMID: 28398354.
- King JL, **Wendt FR**, Sun J, Budowle B. STRait Razor v2s: Advancing sequence-based STR allele reporting and beyond to other marker systems. *Forensic Science International: Genetics.* 2017 Mar 12;29:21-28. doi: 10.1016/j.fsigen.2017.03.013. PubMed PMID: 28343097.
- Pakstis AJ, Kang L, Liu L, Zhang Z, Jin T, Grigorenko EL, **Wendt FR**, Budowle B, Hadi S, Al Qahtani MS, Morling N, Mogensen HS, Themudo GE, Soundararajan U, Rajeewan H, Kidd JR, Kidd KK. Increasing the reference populations for the 55 AISNP panel: the need and benefits. *International Journal of Legal Medicine.* 2017 Jul;131(4):913-917. doi: 10.1007/s00414-016-1524-z. Epub 2017 Jan 9. PubMed PMID: 28070634; PubMed Central PMCID: PMC5491587.
- **Wendt FR**, Warshauer DH, Zeng X, Churchill JD, Novroski NM, Song B, King JL, LaRue BL, Budowle B. Massively parallel sequencing of 68 insertion/deletion markers identifies novel microhaplotypes for utility in human identity testing. *Forensic Science International: Genetics.* 2016 Nov;25:198-209. doi: 10.1016/j.fsigen.2016.09.005. PubMed PMID: 27685342.
- **Wendt FR**, Churchill JD, Novroski NMM, King JL, Ng J, Oldt RF, McCulloh KL, Weise JA, Smith DG, Kanthaswamy S, Budowle B. Genetic analysis of the Yavapai Native Americans from West-Central Arizona using the Illumina MiSeq FGx™ Forensic Genomics System. *Forensic Science International: Genetics.* 2016 Sep;24:18-23. doi: 10.1016/j.fsigen.2016.05.008. Epub 2016 May 17. PubMed PMID: 27243782.
- **Wendt FR**, Zeng X, Churchill JD, King JL, Budowle B. Analysis of short tandem repeat and single nucleotide polymorphism loci from single-source samples using a custom HaloPlex Target Enrichment System panel. *American Journal of Forensic Medicine and Pathology.* 2016 Jun;37(2):99-107. doi: 10.1097/PAF.0000000000000228. PubMed PMID: 27075592.
- Holland M, **Wendt FR**. Evaluation of the RapidHIT™ 200, an automated human identification system for STR analysis of single source samples. *Forensic Science International: Genetics.* 2015 Jan;14:76-85. doi: 10.1016/j.fsigen.2014.08.010. Epub 2014 Sep 17. PubMed PMID: 25286443.

BOOK CHAPTERS AND REVIEWS

- Polimanti R, **Wendt FR**. Posttraumatic stress disorder: from gene discovery to disease biology. *Psychol Med.* 2021 Feb 15:1-11. doi: 10.1017/S0033291721000210. Epub ahead of print. PMID: 33583458.

- Goswami A, **Wendt FR**, Pathak GA, Tylee DS, De Angelis F, De Lillo A, Polimanti R. Role of microbes in the pathogenesis of neuropsychiatric disorders. *Front Neuroendocrinol*. 2021 May 4;62:100917. doi: 10.1016/j.yfrne.2021.100917. Epub ahead of print. PMID: 33957173.
- **Wendt FR**, Pathak GA, Tylee DS, Goswami A, Polimanti R. Heterogeneity and Polygenicity in Psychiatric Disorders: A Genome-Wide Perspective. *Chronic Stress (Thousand Oaks)*. 2020 May 18;4:2470547020924844. doi: 10.1177/2470547020924844. PMID: 32518889; PMCID: PMC7254587.
- **Wendt FR**, Budowle B. Pharmacogenetics and the postmortem molecular autopsy. *WIREs Forensic Sci*. 2019;e1361. <https://doi.org/10.1002/wfs2.1361>.
- Budowle B, Schmedes SE, **Wendt FR**. Increasing the reach of forensic genetics with massively parallel sequencing. *Forensic Sci Med Pathol*. 2017 Sep;13(3):342-349. doi: 10.1007/s12024-017-9882-5. Epub 2017 Jun 19. PubMed PMID: 28631109.
- **Wendt FR** (2020). 'Bioinformatic tools for interrogating DNA recovered from human skeletal remains' in Ambers A.D. (ed.) *Forensic Genetics Approaches for the Identification of Human Skeletal Remains*. Elsevier Science. Publication date: 15JUL2022. ISBN-13: 9780128157664.

MANUSCRIPTS IN REVIEW (PREPRINT AVAILABLE)

- **Wendt FR**, Pathak GA, Polimanti R. Phenome-wide association study of loci harboring de novo tandem repeat mutations in UK Biobank exomes. medRxiv doi: <https://doi.org/10.1101/2022.01.26.22269821>
- De Angelis F, Zeleznik OA, **Wendt FR**, Pathak GA, Tylee DS, De Lillo A, Koller D, Cabrera-Mendoza B, Clifford RE, Maihofer AX, Nievergelt CM, Curhan GC, Curhan SC, Polimanti R. Sex-differences, cross-ancestry generalizability, and noise-smoking interactions in the polygenic architecture of hearing loss in adults. medRxiv doi: <https://doi.org/10.1101/2022.01.26.22269898>.
- **Wendt FR**, Pathak GA, Singh K, Stein MB, Koenen KC, Krystal JH, Gelernter J, Davis LK, Polimanti R. Sex-specific genetic and transcriptomic liability to neuroticism. MedRxiv link not yet available.
- **Wendt FR**, Pathak GA, Vahey J, Qin X, Koller D, Cabrera-Mendoza B, Harrington K, Haeny A, Nallakkandi R, Duong LM, Levey DF, De Angelis F, De Lillo A, Bigdeli T, Pyarajan S, VA Million Veteran Program, Gaziano JM, Gelernter J, Aslan M, Provenzale D, Helmer D, Hauser E, Polimanti R, on behalf of Department of Veteran Affairs Cooperative Study Program (#2006). Modeling the longitudinal changes of ancestry diversity in the Million Veteran Program. bioRxiv doi: <https://doi.org/10.1101/2022.01.24.477583>.
- Polimanti R, Wendt FR, Pathak GA, Tcheandjier, Hilliard AT, Levey DF, Adhikari K, Gaziano MJ, O'Donnell CJ, Assimes TL, Stein MB, Gelernter J. Understanding the dynamics linking posttraumatic stress severity and coronary artery disease using genome-wide information and electronic health records. MedRxiv link not yet available.
- Deak JD, Zhou H, Galimberti M, Levey DF, **Wendt FR**, Hatoum AS, Johnson EC, Walters R, Nunez YZ, Demontis D, Sanchez-Roige S, Kember RL, Justice AC, Edenberg H, Agrawal A, Polimanti R, Kranzler HR, Gelernter J. Genome-wide association study and multi-trait analysis of opioid use disorder (OUD) identifies novel loci and provides insight into the genetic etiology of OUD and substance use disorders. medRxiv doi: <https://doi.org/10.1101/2021.12.04.21267094>.
- Koller D, **Wendt FR**, Pathak GA, De Lillo A, De Angelis F, Cabrera-Mendoza B, Tucci S, Polimanti R. The impact of evolutionary processes in shaping the genetics of complex traits in East Asia and Europe: a specific contribution from Denisovan and Neanderthal introgression. bioRxiv doi: <https://doi.org/10.1101/2021.08.12.456138>.

MANUSCRIPTS IN REVIEW (PREPRINT NOT AVAILABLE)

- **Wendt FR**, Garcia-Argibay M, Cabrera-Mendoza B, Valdimarsdóttir UA, Gelernter J, Stein MB, Maihofer AX, Nievergelt C, Larsson H, Mattheisen M, Polimanti R, Meier S. The relationship of Attention-deficit/hyperactivity Disorder with Post-traumatic Stress Disorder: A Mendelian Randomization and Population-Based Sibling Comparison Study. Revise and resubmit at *JAMA Psychiatry*.
- Tuteja S, Yu Z, Wilson O, Chen HC, **Wendt FR**, Chung CP, Shah S, Hunt CM, Suzuki A, Chang KM, Hung AM. Pharmacogenetic variants and risk of remdesivir associated liver enzyme elevations in participants hospitalized with COVID-19 from the Million Veteran Program. Revise and resubmit at *Clinical Pharmacology and Therapeutics*.
- Tylee DS, Lee YK, **Wendt FR**, Pathak GA, Levey DF, De Angelis F, Gelernter J, Polimanti R. Genetically informed characterization of the effects linking psychiatric and immune-related phenotypes. Revise and resubmit at *JAMA Psychiatry*.

- Novroski NMM, Moo-Choy A, **Wendt FR**. Allele frequencies and minor contributor match statistic convergence using simulated population replicates. In review at International Journal of Legal Medicine.
- Fried C, Bretell TA, **Wendt FR**, Pritchett TH. Atmospheric pressure chemical ionization tandem mass spectrometry and syringe liquid infusion method for the screening of ignitable liquids in fire debris samples. In review at Forensic Chemistry.

FIRST AUTHOR PRESENTATIONS (* delivered via zoom due to COVID-19 pandemic)

INVITED LECTURES

- 2022 *SNP-tandem repeat relationships inform health and disease phenotypes with legal implications*
Penn State Department of Biochemistry and Molecular Biology – Forensic Science Symposium
- 2021 *Modeling the longitudinal changes of ancestry diversity in the MVP cohort: systematic comparison of methods*
Boston University Biostatistics Department
- 2021 *Machine learning survey non-responders increases sample size for gene discovery of heterogeneous traits* (co-presented with Jackie Vahey from Duke University)
Meeting of the MVP Cooperative Studies Program 2006: Genomics of Gulf War Veterans Illness
- 2021 *Leveraging bioinformatic resources to better tackle challenging biological substrates and DNA profiles*
LabRoots Forensic Science Seminar*
- 2020 *The interactive effect of traumatic experiences and posttraumatic stress uncovers novel sex-specific risk loci for suicidality*
United States Department of Veteran Affairs National Center for Posttraumatic Stress Disorder Research Seminar Series*
- 2020 *Gene-by-environment: methods and application to large-scale genetic data*
United States Department of Veteran Affairs Million Veteran Program Gene-by-Environment Work Group*
- 2020 *Complex traits require complex sample sizes: how biobanks, consortia, and citizen science inform the genetic architecture of psychiatric disorders*
Penn State Biochemistry and Molecular Biology Departmental Seminar Series, State College, PA, USA*
- 2019 *The role of early career trainees in large collaborative groups studying complex diseases*
UNTHSC Career Development Seminar Series, Fort Worth, TX, USA
- 2018 *Pharmacogenetics of Select Genes in the Opiate Metabolism and Response Pathways*
UNT System College of Pharmacy, Fort Worth, TX, USA
- 2018 *Personalized medicine and molecular autopsy: distinctions, research, and applications*
PSU Forensic Science Program, University Park, PA, USA
- 2018 *Supervised classification of CYP2D6 metabolizer phenotype with tramadol-exposed Finns*
UNTHSC School of Public Health, Fort Worth, TX, USA
- 2016 *An overview of the pharmacogenetics of opiate metabolism*
UNT Dallas 1st Annual Biology Symposium, Dallas, TX, USA
- 2016 *Careers in biomedical science*
- Texas Academy of Biomedical Science Lecture Series, Fort Worth, TX, USA
 - Tarrant County Community College Biomedical Science Lecture Series, Fort Worth, TX, USA
- 2015 *The Nittany Lion and the lord of the shrine*
PSU Forensic Science Club Symposium, University Park, PA, USA
- 2015 *Massively parallel sequencing: basics and forensic applications*
Promega Corporation Technology Tour, Portsmouth, NH, USA
- 2015 *The power of Y-STR typing*
Promega Corporation Technology Tour, Portsmouth, NH, USA

PEER REVIEWED PLATFORM PRESENTATIONS (Only listing talks that I presented. A full list of co-authored talks delivered by collaborators is available upon request.)

- 2021 *Comorbid-phenome prediction and phenotype risk scores increase data availability for anxiety and PTSD gene discovery*
World Congress of Psychiatric Genetics*
- 2021 *Modeling the longitudinal changes of ancestry diversity in the MVP cohort: systematic comparison of methods*
MVP Science Meeting*
- 2021 *Comorbid-phenome prediction and phenotype risk scores increase data availability for anxiety and PTSD gene discovery*
Yale Postdoc Symposium*
- 2020 *Natural selection influenced the genetic architecture of brain structure, behavioral and neuropsychiatric traits*
Yale Postdoc Symposium*
- 2020 *Trauma and posttraumatic stress interact with sex-specific risk loci for suicidality and converge on brain extracellular matrix biology and synaptic plasticity*
World Congress of Psychiatric Genetics* Workshop titled *Understanding the Biology of Posttraumatic Stress Disorder: Genome-Wide Association Studies, Multivariate Gene-Environment Interactions, and Translational Research*
- 2020 *Education and socioeconomic status mask the identification of brain cell types in GWAS of mental health and disease*
Society for Biological Psychiatry*
- 2020 *Correlative And Causal Relationships Between Complex Traits And Brain Volumes Are Masked By Education And Socioeconomic Status*
Human Genome Organization (HUGO) Meeting*
- 2020 *The effects of the genetic liability to autism spectrum disorder on emotion recognition in young unaffected probands from a population-based cohort*
Yale Child Study Center Seminar Series
- 2019 *Causal Inference Using Different Phenotypic Traits Related to Trauma Exposure, Trauma Response, and Posttraumatic Stress Disorder*
World Congress of Psychiatric Genetics
- 2019 *The effect of the genetic liability to autism spectrum disorder on emotion recognition in young participants from a population-based cohort*
Simons Foundation Autism Research Initiative (SFARI) Trainee Symposium
- 2019 *Deciphering the biological mechanisms underlying the genome-wide associations between computerized device use and psychiatric disorders*
Yale Postdoc Symposium
- 2018 *Pathway-Driven Molecular Autopsy of Tramadol-Exposed Finns*
Gordon Research Seminar – Forensic Science
- 2016 *Analysis of massively parallel sequencing data using the STR Allele Identification Tool – Razor (STRait Razor)*
International Symposium on Human Identification Workshop titled *Moving implementation mountains: Experiencing the forensic laboratory next generation sequencing workflow*

PEER REVIEWED POSTER PRESENTATIONS (Only listing talks that I presented. A full list of co-authored talks delivered by collaborators is available upon request.)

- 2020 *Genomic characterization of the ACE2 network highlights heterogeneous phenotypes of COVID-19*
American Society of Human Genetics*
- 2020 *Genomic structural equation modeling informs the shared genetic architecture of comorbid mental health conditions*
MVP Science Meeting*
- 2020 *Sex-specific gene-by-environment genome-wide interaction study of trauma, posttraumatic stress, and suicidality*

	The STEM Village Virtual Symposium*
2019	<i>Posttraumatic stress disorder phenotype definition and overcoming shared etiology with related psychiatric disorders</i> MVP Science Meeting
2019	<i>The effect of the genetic liability to autism spectrum disorder on emotion recognition in young participants from a population-based cohort</i> World Congress of Psychiatric Genetics
2019	The effects of natural selection on the persistence of common genetic risk for physiologic and pathologic traits of the human brain American Society of Human Genetics <ul style="list-style-type: none"> Received Reviewer's Choice designation indicating top 10% of all abstracts (~3,000 total abstracts)
2019	<i>Implication of FOXP2 and DRD2 in the associations between computerized device use and psychiatric disorders</i> Society for Biological Psychiatry
2017	<i>In silico evaluation of a more comprehensive pharmacogenetic profile for predicting opiate metabolizer phenotype</i> The Pharmacogenetics Research Network & American Society of Human Genetics
2017	<i>The future of the CYP2D6 molecular autopsy using tramadol-exposed individuals</i> International Symposium on Human Identification
2017	<i>Sequencing of 68 insertion/deletion markers: motif and microhaplotypes</i> International Symposium on Human Identification
2017	<i>STR and SNP genetic analyses of the Yavapai Native Americans using massively parallel sequencing</i> International Symposium on Human Identification
2015	<i>Analysis of single-source short tandem repeat and single nucleotide polymorphism loci using a custom HaloPlex Target Enrichment System panel</i> International Symposium on Human Identification
2013	<i>Rapid human identification: an evaluation of the RapidHIT® 200</i> 8 th International Society for Applied Biological Sciences (ISABS) Conference on Forensic and Anthropologic Genetics and Mayo Clinic Lectures in Individualized Medicine
2013	<i>Rapid human identification: an evaluation of the RapidHIT® 200</i> International Symposium on Human Identification & American Society of Crime Laboratory Directors Symposium & Northeastern Association of Forensic Scientists & PSU Undergraduate Research Exhibition
2011	<i>Clone library of microorganisms from Siberia, Antarctica, and Pennsylvania cold trap permafrost</i> Pennsylvania Academy of Science

PROFESSIONAL SERVICE

MEMBERSHIPS

2021-present	Associate Member of the American Academy of Forensic Sciences
2019-2021	Trainee Member of the American Academy of Forensic Sciences
2017-present	American Society of Human Genetics

JOURNAL SERVICE – AD HOC REVIEWER

2021-present	<i>Molecular Psychiatry</i>
2020-present	<i>European Neuropsychopharmacology, Depression and Anxiety, Neurobiology of Stress</i>
2019-present	<i>Molecular Neuropsychiatry, Pharmacogenomics, Annals of Human Biology, PLOS ONE</i>
2018-present	<i>PLOS Genetics, Current Molecular Medicine, International Journal of Legal Medicine, Forensic Science Research</i>
2017-present	<i>BMC Bioinformatics, Journal of Zhejiang University – SCIENCE B</i>

2016-present *Forensic Science International: Genetics*

ORGANIZATION SERVICES

2021-present Diversity and Inclusion Focus Group of the *American Academy of Forensic Sciences*

2017-present DNA Day Essay Contest Judge, *American Society of Human Genetics*

UNIVERSITY SERVICES

2020 Yale Postdoc Association 3rd Annual Postdoc Symposium Organizing Committee

2019-2021 Courtney Patterson, MPS candidate, PSU Forensic Science Program, Thesis Committee Member, Thesis: *DNA Analysis of Fingerprint Mixtures*

2018-2020 PSU Eberly College of Science Alumni Mentorship Program, alumni mentor to Ms. Quanyiah Martin, Forensic Science major

2017-2021 PSU Eberly College of Science Alumni Mentorship Program, alumni mentor to Ms. Tamara Ricketts, Forensic Science major

2017-2019 Shayna Gray, MPS, PSU Forensic Science Program, Thesis Committee Member, Thesis: *Determination of Human Identity from Mosquito Blood Meals*

2017-2019 Teresa Tiedge, MPS, PSU Forensic Science Program, Thesis Committee Member, Thesis: *Massively Parallel Sequencing and STR Analysis from Partial Bloody Fingerprints Enhanced with Columnar Thin Films*

EXTRAMURAL SERVICES

2021 Doctoral dissertation referee for Dr. Ana Neckovic, Deakin University

PUBLIC SERVICE

2021-present Grant/Fellowship reviewer for Peer Review for Inclusion, Diversity, and Equity (PRIDE), an LGBTQ+ peer grant and fellowship review network

2016, 2017, 2018 Fort Worth Botanic Gardens volunteer

2017 UNTHSC LGBTQ and Allies student panel speaker

2015, 2016, 2017 UNTHSC Center for Diversity and International Programs Summer Research Internship Program poster presentation judge

2015, 2016 Walk to End Alzheimer's volunteer

2016 TexPrep STEM Outreach student member

2015, 2016 Texas Academy of Biomedical Science Education Week event coordinator

2016 South Garland High School career day presenter

2015 Tarrant County Heart Walk volunteer

2015 Presbyterian Night Shelter of Fort Worth volunteer

2015 Catholic Charities of Fort Worth volunteer

2015 Relay for Life volunteer

2013, 2014, 2015 Hope Exists After Rape Trauma sponsor retreat attendance for one victim (\$500 donation)

2014 James Joy Elementary School College Day presenter

2014 American Academy of Forensic Sciences CSI Summer Camp event coordinator

2013 Penn State Arts Festival Event "Mystery of the Purloined Art" event coordinator

2013 Moshannon Valley High School forensic science career day event coordinator

2013 Expanding Your Horizons STEM Career Day for Young Women event coordinator

MENTORSHIP

CURRENT

Rachel Shaddof	Affiliation at time of mentoring: PhD Student with Nicole Novroski at University of Toronto Mississauga Mentored topics: forensic genetics, statistics, population genetics, polygenic risk scoring Mentoring duration: 2020-present Current employment: NA
Anjalika Balasuriya	Affiliation at time of mentoring: MS Student with Nicole Novroski at University of Toronto Mississauga Mentored topics: forensic genetics, statistics, population genetics Mentoring duration: 2020-present Current employment: NA
Ashley Moo-Choy	Affiliation at time of mentoring: MS Student with Nicole Novroski at University of Toronto Mississauga Mentored topics: forensic genetics, statistics, population genetics Mentoring duration: 2020-present Current employment: NA
Dr. Cassie Overstreet	Affiliation at time of mentoring: Clinical Neuroscience Postdoc at VA CT Healthcare System and Yale School of Medicine Mentored topics: Machine learning, R statistical programming Mentoring duration: 2020-present Current employment: NA
Meghan Bauer	Affiliation at time of mentoring: (1) Undergraduate at Moravian College Neuroscience Program (2) PhD Student in Neuroscience at Lehigh University Mentored topics: Career planning Mentoring duration: 2019-present Current employment: PhD Student in Neuroscience at Lehigh University
Teresa Tiedge	Affiliation at time of mentoring: (1) MS Student with Reena Roy at Penn State, (2) PhD student with Kelly Meiklejohn at North Carolina State University Mentored topics: Statistics, statistical genetics, forensic science concepts, career planning Mentoring duration: 2017-present Current employment: PhD student with Kelly Meiklejohn at North Carolina State University
Dr. Gita Pathak	Affiliation at time of mentoring: (1) Ph.D. Student at University of North Texas Health Science Center, (2) Postdoctoral Associate at Yale School of Medicine Department of Psychiatry Mentored topics: Career planning, bioinformatics, polygenic risk scoring, Mendelian randomization, genetic correlation, GWAS, machine learning, R statistical programming Mentoring duration: 2015-present Current employment: Postdoctoral Associate at Yale School of Medicine Department of Psychiatry

PREVIOUS MENTEES

Courtney Patterson	Affiliation at time of mentoring: MS Student with Reena Roy at Penn State Mentored topics: Statistics, statistical genetics, forensic science concepts, career planning Mentoring duration: 2019-2021 Current employment: NA
Quaniyah Martin	Affiliation at time of mentoring: Undergraduate Student at Penn State Eberly College of Science Mentored topics: Career planning Mentoring duration: 2018-2020 Current employment: NA
Dr. Aranyak Goswami	Affiliation at time of mentoring: Postdoctoral Associate at Yale School of Medicine Department of Psychiatry Mentored topics: Bioinformatics, polygenic risk scoring, Mendelian randomization, genetic correlation, human genetics concepts Mentoring duration: 2019-2020 Current employment: Postdoctoral Associate at Yale School of Medicine Departments of Internal Medicine and Genetics
Tamara Ricketts	Affiliation at time of mentoring: Undergraduate Student at Penn State Eberly College of Science Mentored topics: Career planning

Mentoring duration: 2017-2020
Current employment: NA

Shayna Gray Affiliation at time of mentoring: MS Student with Reena Roy at Penn State
Mentored topics: Statistics, statistical genetics, forensic science concepts, career planning
Mentoring duration: 2017-2020
Current employment: Research Assistant at Penn State Forensic Science Program

Carolina Muniz Affiliation at time of mentoring: Visiting scientist at Yale University School of Medicine Department
Carvalho of Psychiatry
Mentored topics: Bioinformatics, polygenic risk scoring, Mendelian randomization
Mentoring duration: 2018-2019
Current employment: Ph.D. Candidate at Universidade Federal de São Paulo

Allison Sherier Affiliation at time of mentoring: Ph.D. Student at University of North Texas Health Science Center
Mentored topics: Bioinformatics, R statistical programming, DNA sequence alignment
Mentoring duration: 2016-2018
Current employment: Ph.D. Candidate at University of North Texas Health Science Center

Victor Dias Affiliation at time of mentoring: Ph.D. Student at Universidade Federal do Rio de Janeiro
Mentored topics: Library preparation and massively parallel sequencing workflows
Mentoring duration: 2016-2017
Current employment: Ph.D. Candidate at Universidade Federal do Rio de Janeiro

Isadora Mello Affiliation at time of mentoring: Ph.D. Student at Universidade Federal do Rio de Janeiro
Mentored topics: Library preparation and massively parallel sequencing workflows
Mentoring duration: 2016-2017
Current employment: Staff scientist at Universidade Federal do Rio de Janeiro

Francine Brignac Affiliation at time of mentoring: M.S. Student at University of North Texas Health Science Center
Mentored topics: Statistics, statistical genetics, R statistical programming
Mentoring duration: 2014-2016
Current employment: Forensic Biologist at University of North Texas Health Science Center Center
for Human Identification

F. Nicole Proctor Affiliation at time of mentoring: M.S. Student at University of North Texas Health Science Center
Mentored topics: Statistics, statistical genetics, R statistical programming
Mentoring duration: 2014-2016
Current employment: Forensic Scientist II at New Orleans Police Crime Laboratory