

Laramie E. Duncan, PhD

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Citations: 25,130

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Positions

9/2018–8/2024 Stanford University, Department of Psychiatry and Behavioral Sciences
Major Laboratories and Clinical Neurosciences Incubator Division
Assistant Professor, University Tenure Line
9/2023–8/2024 Extension: new parent
9/2022–8/2023 Extension: COVID
9/2018–8/2022 Initial appointment

2017 – 2018 Stanford University, Department of Psychiatry and Behavioral Sciences
Major Laboratories and Clinical Neurosciences Incubator
Instructor

2015 – 2016 Harvard Medical School, Department of Medicine
Instructor

Education

2016 – 2017 Stanford University, Department of Psychiatry and Behavioral Sciences
Clinical and Research Postdoctoral Fellow

2013 – 2014 Harvard Medical School / ATGU at Massachusetts General Hospital
Postdoctoral fellow in Statistical Genetics

2011 – 2013 Harvard School of Public Health / PNGU at Massachusetts General Hospital
Postdoctoral fellow in Psychiatric Genetics and Translational Research

2010 – 2011 McLean Hospital / Harvard Medical School *Clinical psychology internship*

2004 – 2011 University of Colorado at Boulder, Department of Psychology & Neuroscience
Doctor of Philosophy, in Clinical Psychology
Doctor of Philosophy in Neuroscience (joint PhD)

2007 – 2010 Institute for Behavioral Genetics *Interdisciplinary Certificate Trainee*

1998 – 2003 University of Georgia, Athens, double major
Bachelor of Sciences in Honors Interdisciplinary Studies and Psychology

Scientific Leadership & Service in National and International Groups

VA Advanced Fellowship in Data Science	National Director	2020 -
World Congress of Psychiatric Genetics	Program Committee, 3-year term	2022 -
Society of Biological Psychiatry	Program Committee, 2-year term	2021 - 2023

Psychiatric Genomics Consortium (PGC) - The PGC is the world's largest consortium focused on genetics of psychiatric disease, and it has 800+ international members. My work in the PGC includes, but is not limited to, these named roles:

- Leader & Founder of Cross Population Group 2018 -
- Data Access Committee Member, PTSD representative; 3-year term 2015 - 2018
- Lead Analyst for PGC-PTSD group, first author of flagship paper 2013 - 2017
- Lead Analyst for PGC-Anorexia group, first author of flagship paper 2013 - 2017

Honors & Awards

- 2022 **Bio-X Mentorship Award** Stanford University
- 2021 **Bio-X Star Mentor Award** Stanford University
- 2021 **Rising Star Oral Presentation Session** Society of Biological Psychiatry
- 2020 **Chairman's Award: Advancing Science** Stanford Psychiatry and Behavioral Sciences
- 2019 **Excellence in Teaching Award** Stanford Psychiatry Residency
- 2017 **Reviewer's Choice Award** at American Society for Human Genetics, Orlando
- 2016 **iSummit Travel Awardee** at for Interoception Summit Laureate Institute
- 2012 **WCPG Oral Presentation Award Finalist** at World Congress of Psychiatric Genetics
- 2012 **ISPG Travel Award** at World Congress of Psychiatric Genetics 2012
- 2011 **Fulker Award 2010** Best paper in *Behavioral Genetics* for 2010 (co-author with Matthew Keller and Sarah Medland)
- 2010 **Marquis Who's Who in America**
- 2007 **National Institute of Child Health and Human Development Traineeship**
Institute for Behavioral Genetics, University of Colorado at Boulder
- 2004 **University Scholarship.** University of Colorado at Boulder
- 2003 **Presidential Scholar** University of Georgia
- 2003 **Phi Kappa Phi**
- 1998 **Foundation Fellowship** University of Georgia, full scholarship + global travel yearly
- 1998 **Robert C. Byrd Honors Scholarship** University of Georgia
- 1998 **Governor's Scholarship** University of Georgia
- 1998 **Scholar Athlete Award** Rotary Club
- 1998 **National Merit Scholarship** University of Georgia

Grant support (current)

Uytengsu-Hamilton 22q11 Neuropsychiatry Award (Duncan) Mar 2024 – Feb 2026
Stanford Maternal and Child Health Research Institute
Discovering cell type specificity of 22q11.2DS genes
The goal of this project is to determine the specific human brain cell types that preferentially express genes in the 22q11.2 deletion region associated with schizophrenia.
Role: PI

R01 MH123486 (Duncan) Aug 2020 – May 2025
NIMH
Sex hormones and post-traumatic stress disorder, PTSD
The goal of this research is to quantify sex hormone effects on risk of PTSD, using a large population sample from the UK.
Role: PI

Jaswa Innovator Award (Duncan) Sep 2022 – Aug 2024
Stanford Psychiatry and Behavioral Sciences
Exposing the molecular pathology of schizophrenia: A data-driven, genomics-informed investigation of human brain tissue
The goal of this project is to use genome-wide data to identify schizophrenia linked cell types and novel treatment targets, in postmortem tissue.
Role: PI

R21 MH125358-01 (Gelaye) Jul 2022 – Jun 2024
NIMH
Maternal hair cortisol concentrations, prenatal psychopathology, offspring behavioral phenotypes
The goal of this research is to investigate relationships among hair cortisol, maternal stress, prenatal psychopathology, and offspring behavioral phenotypes in a well-phenotyped longitudinal cohort in Lima, Peru.
Role: PI (subcontract)

R21 MH125358-01 (Duncan) Jul 2021 – Jun 2024
NIMH
Sex Chromosome GWAS of Post-Traumatic Stress Disorder, PTSD
The goal of this research is to investigate sex chromosome effects on post-traumatic stress disorder (PTSD) in a large and diverse sample.
Role: PI

U01 MH181655-01 (Snyder, Urban, Hallmayer) Apr 2018 – Mar 2024
NIMH
Integrated, cell type specific functional genomics analyses of regulatory sequence elements and their dynamic interaction networks in neuropsychiatric brain tissues (PsychENCODE)
Create epigenomic maps of regulatory genomic elements and their interactions in neuropsychiatric disorders, using scRNA-Seq, scATAC-Seq, sorted HiChIP, phased whole genome sequencing, nuclear proteomics, advanced approaches for data analysis.
Role: Key Personnel

Grant support (completed)

R01 Supplement to R01 MH123486 (Duncan) Jun 2022 – May 2023
NIMH
Sex hormones and post-traumatic stress disorder, PTSD
Role: PI

Research Grant for Junior Faculty for Covid Disruptions (Duncan) Sep 2021 – Aug 2022
Stanford
Role: PI

Dependent care Grant for Junior Faculty for Covid Disruptions (Duncan) Sep 2021 – Aug 2022
Stanford
Role: PI

WHSDM Seed Grant (Duncan) Oct 2018 – Sep 2019
Med/SPRC Biological/Medical Research on Sex Differences
Testing Hypotheses about Sex Differences in PTSD using Large-scale Genetic Data
The goal of this seed grant is to develop an R01 application via the generation of preliminary data and strengthening of collaborations. The R01 will be designed to disentangle environmental and biological causes for sex differences in PTSD.
Role: PI

R01MH106595-02 (Duncan -> Levinson) Aug 2016 – Jun 2019
NIMH
Psychiatric Genomics Consortium for PTSD
The purpose of this application is to facilitate meta-analyses of genome-wide association study (GWAS) data for symptoms and diagnosis of PTSD.
Role: Co-PI*
**Note: This grant was awarded with Dr. Duncan as MPI, but PI-ship was transferred to Dr. Levinson due to institutional restrictions. Dr. Duncan had full scientific and financial control for the duration of the award.*

K01 AA025692 (Sheerin) May 2018 – Apr 2023
NIAAA
Overlap in Genetic and Learning Based Mechanisms for Alcohol Use Disorder and PTSD
The overall goal of this application is to provide the candidate with the training necessary to pursue a multimodal program of research to explore the shared underpinnings of AUD and PTSD.
Role: Consultant, paid

Spectrum Population Health Sciences Pilot grant (Duncan) May 2017 – Apr 2018
Spectrum Pilot Grant Program through NIH
Quantifying Genetic Risk in Diverse Populations
The goal of this project is to assess the predictive performance of individual level genetic risk scores (polygenic risk scores) across diverse populations.
Role: PI

Contract to Stanford for PTSD Genomics Work (Duncan -> Levinson) Jan 2016 – Dec 2016
Cohen Veterans Bioscience
Danish and Military PTSD Analyses - CVB 2016 Project
The goal of this project is to further the analytical work of the Psychiatric Genomics Consortium Posttraumatic Stress Disorder (PGC-PTSD) Group, via the addition of a Danish cohort.

Role: PI*

**Note: This grant was awarded with Dr. Duncan as PI, but PI-ship was transferred to Dr. Levinson due to institutional restrictions. Dr. Duncan had full scientific and financial control for the duration of the award.*

U01 MH094432 (Daly) May 2015 – Mar 2017
NIMH
2/4-Psychiatric GWAS Consortium: Genomic Follow-Up Next-Gen Sequencing & Genotyping
The overall goal of this application is to generate trustworthy, high-confidence "maps" of the genetic architecture of centrally important psychiatric diseases.
Role: Postdoc

Jonathan Edwards Brooking Mental Health Fellowship (Duncan) Jul 2011 – Jun 2012
McLean Hospital / Harvard Medical School
Genetic Analysis of the McLean Schizophrenia and Bipolar Disorder, Genotype-Phenotype Study
The goal of this study was to conduct pathway analysis of schizophrenia and bipolar disorder.
Role: PI

Grant support (under review and pending submission)

R01 MPI (Huang, Duncan, Peterson, Gelaye) Under review
NIH
Psychiatric Risk Variants with Global Impact
Role: PI within MPI

Stanford: Hoffman-Yee (Duncan) LOI submitted
Internal
Genetics Guided Precision Psychiatry (GGPP)
Role: PI

R21 PI (Giardino) Scored, resubmission in progress
NIH
Psychostimulant Sleep Disruption and Sex-Specific Limbic Neuropeptide Signaling
Role: Key Personnel

U01 PI (Duncan) (upcoming) Jun 2024
NIH
Smart Rx: Improving the risk/benefit profile of menopausal hormone therapy for Alzheimer’s Disease
Role: PI

Specialized Clinical Training

- Cognitive Behavioral Therapy for Psychosis (CBT-P) Workshop Stanford (2016)
- Acceptance and Commitment Therapy (ACT) Workshop (2008)
- Socially Anxious Clients: Changing Lives through Cognitive Behavioral Group Therapy (2006)
- Neuropharmacology for the Clinical Psychologist (2007)
- Culturally Sensitive CBT (2007)
- ACT More Directly (2007)

Publications (63)

Peer-Reviewed Original Data Articles (52 = 5 in review + 1 in press + 47 published)

In Review:

1. **Duncan LE**, Li T, Salem M, Li W, Mortazavi L, Senturk H, Shargh N, Vesuna S, Shen H, Yoon J, Wang G, Ballon J, Tan L, Pruett BS, Knutson B, Deisseroth K, Giardino WJ. Mapping the Cellular Etiology of Schizophrenia and Diverse Brain Phenotypes (**in revision**)
2. Shen H, Stafford C, Meijisen J, Reiter J, Lawn R, Smith A, Vemuri M, **Duncan LE**. Testosterone levels predict future PTSD symptoms among middle and older age UK residents. (**in revision**)
3. Cusack SE, Maihofer AX, Bustamante D, The Psychiatric Genomics Consortium Posttraumatic Stress Disorder Working Group, Amstadter AB, **Duncan LE** (2023) Genetic influences on testosterone and PTSD Shannon E. (**in revision**)
4. Cooper BN, Cusack SE, Brown LM, Domingue BW, **Duncan LE** (2023). Sex differences in post-traumatic stress symptom expression: an analysis of measurement invariance. PsyArXiv. (**under review**)
5. Zhou B, Arthur JG, Guo H, Kim T, Huang Y, Pattni R, Kundu S, Luo JXJ, Lee H, Wang T, Purman C, Monte EM, Weimer A, Qu P, Shi M, Jiang L, Yang X, Fullard JF, Bendl J, Girdhar K, Chen X, PsychENCODE Consortium, **Duncan L**, Ji HP, zu Dohna H, Palajev D, Song G, Zhu X, Roussos P, Kundaje AB, Hallmayer JF, Snyder MP, Wong WH, Urban AE. (**under review**)

In Press/accepted:

6. Nievergelt CM, Maihofer AX, Atkinson EG, Chen CY, Choi KW, Coleman JR, Daskalakis NP, **Duncan LE**... 239 total authors, Koenen KC. Discovery of 95 PTSD loci provides insight into genetic architecture and neurobiology of trauma and stress-related disorders. (accepted) **Nature Genetics**.

Published:

7. **Duncan LE**, Shen H, Schulmann A, Li T, Kolachana B, Mandal A, Feng N, Auluck P, Marengo S (2023). Polygenic scores for psychiatric disorders in a diverse postmortem brain tissue cohort. **Neuropsychopharmacology** 48(5), 764–772.
8. Tan L, Shi J, Moghadami S, Wright CP, Parasar B, Seo Y, Vallejo K, Cobos I, **Duncan LE**, Chen R, Deisseroth K (2023). (2023) Cerebellar Granule Cells Develop Non-neuronal 3D Genome Architecture over the Lifespan. **Science** 381(6662), 1112-1119.
9. Guo MG, Reynolds DL, Ang CE, Liu Y, Zhao Y, Donohue LK, Sipsashvili Z, Yang X, Yoo Y, Mondal S, Hong A, Kain J, Meservey L, Fabo T, Elfaki I, Kellman LN, Abell NS, Pershad Y, Bayat V, Paam Etminani P, Holodniy M, Geschwind DH, Montgomery SB, **Duncan LE**, Urban AE, Altman RB, Wernig M, Khavari KA. (2023) Integrative analyses highlight functional regulatory variants associated with neuropsychiatric diseases. **Nature Genetics** 55, 1876-1891.

10. Maihofer AX, Choi KW, Coleman JRI, Daskalakis NP, Denckla CA, Ketema E, Morey RA, Polimanti R, Ratanatharathorn A, Torres K, Wingo AP, Zai CC, Aiello AE, Almli LM, Amstadter AB, Andersen SB, Andreassen OA, Arbisi PA, Ashley-Koch AE, Austin SB, Avdibegović E, Borglum AD, Babić D, Bækvad-Hansen M, Baker DG, Beckham JC, Bierut LJ, Bisson JI, Boks MP, Bolger EA, Bradley B, Brashear M, Breen G, Bryant RA, Bustamante AC, Bybjerg-Grauholm J, Calabrese JR, Caldas-de-Almeida JM, Chen C-Y, Dale AM, Dalvie S, Deckert J, Delahanty DL, Dennis MF, Disner SG, Domschke K, **Duncan LE**, Džubur Kulenović A, Erbes CR, Evans A, Farrer LA, Feeny NC, Flory JD, Forbes D, Franz CE, Galea S, Garrett ME, Gautam A, Gelaye B, Gelernter J, Geuze E, Gillespie CF, Goçi A, Gordon SD, Guffanti G, Hammamieh R, Hauser MA, Heath AC, Hemmings SMJ, Hougaard DM, Jakovljević M, Jett M, Johnson EO, Jones I, Jovanovic T, Qin X-J, Karstoft K-I, Kaufman ML, Kessler RC, Khan A, Kimbrel NA, King AP, Koen N, Kranzler HR, Kremen WS, Lawford BR, Lebois LAM, Lewis C, Liberzon I, Linnstaedt SD, Logue MW, Lori A, Luponja B, Luykx JJ, Lyons MJ, Maples-Keller JL, Marmar C, Martin NG, Maurer D, Mavissakalian MR, McFarlane A, McGlinchey RE, McLaughlin KA, McLean SA, Mehta D, Mellor R, Michopoulos V, Milberg W, Miller MW, Morris CP, Mors O, Mortensen PB, Nelson EC, Nordentoft M, Norman SB, O'Donnell M, Orcutt HK, Panizzon MS, Peters ES, Peterson AL, Peverill M, Pietrzak RH, Polusny MA, Rice JP, Risbrough VB, Roberts AL, Rothbaum AO, Rothbaum BO, Roy-Byrne P, Ruggiero KJ, Rung A, Rutten BPF, Saccone NL, Sanchez SE, Schijven D, Seedat S, Seligowski AV, Seng JS, Sheerin CM, Silove D, Smith AK, Smoller JW, Sponheim SR, Stein DJ, Stevens JS, Teicher MH, Thompson WK, Trapido E, Uddin M, Ursano RJ, van den Heuvel LL, Van Hooff M, Vermetten E, Vinkers CH, Voisey J, Wang Y, Wang Z, Werge T, Williams MA, Williamson DE, Winternitz S, Wolf C, Wolf EJ, Yehuda R, Young KA, Young RM, Zhao H, Zoellner LA, Haas M, Lasseter H, Provost AC, Salem RM, Sebat J, Shaffer RA, Wu T, Ripke S, Daly MJ, Ressler KJ, Koenen KC, Stein MB, Nievergelt CM (2022). Enhancing Discovery of Genetic Variants for Posttraumatic Stress Disorder Through Integration of Quantitative Phenotypes and Trauma Exposure Information. ***Biological Psychiatry*** 91(7), 626–636.
11. Meijisen JJ, Shen H, Vemuri M, Rasgon NL, Koenen KC, **Duncan LE** (2021). Shared genetic influences on depression and menopause symptoms. ***Psychological Medicine*** 53(6), 1–11.
12. Zhu X, Zhou B, Pattni R, Gleason K, Tan C, Kalinowski A, Sloan S, Fiston-Lavier A-S, Mariani J, Petrov D, Barres BA, **Duncan LE**, Abyzov A, Vogel H, Zhu X, Zhou B, Urban A, Walsh C, Ganz J, Woodworth M, Li P, Rodin R, Hill R, Bizzotto S, Zhou Z, Lee A, D’Gama A, Galor A, Bohrsen C, Kwon D, Gulhan D, Lim E, Cortes I, Luquette J, Sherman M, Coulter M, Lodato M, Park P, Monroy R, Kim S, Dou Y, Chess A, Jones A, Rosenbluh C, Akbarian S, Langmead B, Thorpe J, Pevsner J, Scharpf R, Cho S, Vaccarino F, Fasching L, Tomasi S, Sestan N, Pochareddy S, Jaffe A, Paquola A, Weinberger D, Erwin J, Shin J, Straub R, Narurkar R, Addington A, Panchision D, Meinecke D, Senthil G, Bingaman L, Dutka T, Lehner T, Abyzov A, Bae T, Saucedo-Cuevas L, Conniff T, Flasch DA, Frisbie TJ, Kidd JM, Lam MM, Moldovan JB, Moran JV, Kwan KY, Mills RE, Emery S, Zhou W, Wang Y, Daily K, Peters M, Gage F, Wang M, Reed P, Linker S, Sarkar A, Serres A, Juan D, Povolotskaya I, Lobon I, Solis M, Garcia R, Marques-Bonet T, Mathern G, Courchesne E, Gu J, Gleeson J, Ball L, George R, Pramparo T, Ratan A, McConnell MJ, Moran JV, Vaccarino FM, Tamminga CA, Levinson DF, Urban AE (2021). Machine learning reveals bilateral distribution of somatic L1 insertions in human neurons and glia. ***Nature Neuroscience*** 24, 186–196.

13. Martin J, Khramtsova EA, Goleva SB, Blokland GAM, Traglia M, Walters RK, Hübel C, Coleman JRI, Breen G, Børglum AD, Demontis D, Grove J, Werge T, Bralten J, Bulik CM, Lee PH, Mathews CA, Peterson RE, Winham SJ, Wray N, Edenberg HJ, Guo W, Yao Y, Neale BM, Faraone SV, Petryshen TL, Weiss LA, **Duncan LE**, Goldstein JM, Smoller JW, Stranger BE, Davis LK, Sex Differences Cross-Disorder Analysis Group of the Psychiatric Genomics Consortium (2021). Examining Sex-Differentiated Genetic Effects Across Neuropsychiatric and Behavioral Traits. ***Biological Psychiatry*** 89(12), 1127–1137.
14. Shen H, Gelaye B, Huang H, Rondon MB, Sanchez S, **Duncan LE** (2020). Polygenic prediction and GWAS of depression, PTSD, and suicidal ideation/self-harm in a Peruvian cohort. ***Neuropsychopharmacology*** 45, 1595–1602.
15. Sheerin CM, Bountress KE, Meyers JL, Saenz de Viteri SS, Shen H, Maihofer AX, **Duncan LE***, Amstadter AB* (2020). Shared molecular genetic risk of alcohol dependence and posttraumatic stress disorder (PTSD). ***Psychological Addiction Behavior*** 34(5), 613–619. *co-senior authorship
16. Huckins LM, Chatzinakos C, Breen MS, Hartmann J, Klengel T, da Silva Almeida AC, Dobbyn A, Girdhar K, Hoffman GE, Klengel C, Logue MW, Lori A, Maihofer AX, Morrison FG, Nguyen HT, Park Y, Ruderfer D, Sloofman LG, van Rooij SJH, Baker DG, Chen C-Y, Cox N, **Duncan LE**, Geyer MA, Glatt SJ, Im HK, Risbrough VB, Smoller JW, Stein DJ, Yehuda R, Liberzon I, Koenen KC, Jovanovic T, Kellis M, Miller MW, Bacanu S-A, Nievergelt CM, Buxbaum JD, Sklar P, Ressler KJ, Stahl EA, Daskalakis NP (2020). Analysis of Genetically Regulated Gene Expression Identifies a Prefrontal PTSD Gene, SNRNP35, Specific to Military Cohorts. ***Cell Reports*** 31(9), 107716.
17. Munn-Chernoff MA, Johnson EC, Chou Y, Coleman JRI, Thornton LM, Walters RK, Yilmaz Z, Baker JH, Hübel C, Gordon S, Medland SE, Watson HJ, Gaspar HA, Bryois J, Hinney A, Leppä VM, Mattheisen M, Ripke S, Yao S, Giusti-Rodríguez P, Hanscombe KB, Adan RAH, Alfredsson L, Ando T, Andreassen OA, Berrettini WH, Boehm I, Boni C, Boraska Perica V, Buehren K, Burghardt R, Cassina M, Cichon S, Clementi M, Cone RD, Courtet P, Crow S, Crowley JJ, Danner UN, Davis OSP, Zwaan M, Dedoussis G, Degortes D, DeSocio JE, Dick DM, Dikeos D, Dina C, Dmitrzak-Weglarz M, Docampo E, **Duncan LE**, Egberts K, Ehrlich S, Escaramís G, Esko T, Estivill X, Farmer A, Favaro A, Fernández-Aranda F, Fichter MM, Fischer K, Föcker M, Foretova L, Forstner AJ, Forzan M, Franklin CS, Gallinger S, Giegling I, Giuranna J, Gonidakis F, Gorwood P, Gratacos Mayora M, Guillaume S, Guo Y, Hakonarson H, Hatzikotoulas K, Hauser J, Hebebrand J, Helder SG, Herms S, Herpertz-Dahlmann B, Herzog W, Huckins LM, Hudson JI, Imgart H, Inoko H, Janout V, Jiménez-Murcia S, Julià A, Kalsi G, Kaminská D, Karhunen L, Karwautz A, Kas MJH, Kennedy JL, Keski-Rahkonen A, Kiezebrink K, Kim Y, Klump KL, Knudsen GPS, La Via MC, Le Hellard S, Levitan RD, Li D, Lilienfeld L, Lin BD, Lissowska J, Luykx J, Magistretti PJ, Maj M, Mannik K, Marsal S, Marshall CR, Mattingsdal M, McDevitt S, McGuffin P, Metspalu A, Meulenbelt I, Micali N, Mitchell K, Monteleone AM, Monteleone P, Nacmias B, Navratilova M, Ntalla I, O'Toole JK, Ophoff RA, Padyukov L, Palotie A, Pantel J, Papezova H, Pinto D, Rabionet R, Raevuori A, Ramoz N, Reichborn-Kjennerud T, Ricca V, Ripatti S, Ritschel F, Roberts M, Rotondo A, Rujescu D, Rybakowski F, Santonastaso P, Scherag A, Scherer SW, Schmidt U, Schork NJ, Schosser A, Seitz J, Slachtova L, Slagboom PE, Slof-Op't Landt MCT, Slopian A, Sorbi S, Świątkowska B, Szatkiewicz JP, Tachmazidou I, Tenconi E, Tortorella A, Tozzi F, Treasure J, Tsitsika A, Tyszkiewicz-Nwafor M, Tziouvas K, Elburg AA, Furth EF, Wagner G, Walton E, Widen

E, Zeggini E, Zerwas S, Zipfel S, Bergen AW, Boden JM, Brandt H, Crawford S, Halmi KA, Horwood LJ, Johnson C, Kaplan AS, Kaye WH, Mitchell J, Olsen CM, Pearson JF, Pedersen NL, Strober M, Werge T, Whiteman DC, Woodside DB, Grove J, Henders AK, Larsen JT, Parker R, Petersen LV, Jordan J, Kennedy MA, Birgegård A, Lichtenstein P, Noring C, Landén M, Mortensen PB, Polimanti R, McClintick JN, Adkins AE, Aliev F, Bacanu S, Batzler A, Bertelsen S, Biernacka JM, Bigdeli TB, Chen L, Clarke T, Degenhardt F, Docherty AR, Edwards AC, Foo JC, Fox L, Frank J, Hack LM, Hartmann AM, Hartz SM, Heilmann-Heimbach S, Hodgkinson C, Hoffmann P, Hottenga J, Konte B, Lahti J, Lahti-Pulkkinen M, Lai D, Ligthart L, Loukola A, Maher BS, Mbarek H, McIntosh AM, McQueen MB, Meyers JL, Milaneschi Y, Palviainen T, Peterson RE, Ryu E, Saccone NL, Salvatore JE, Sanchez-Roige S, Schwandt M, Sherva R, Streit F, Strohmaier J, Thomas N, Wang J, Webb BT, Wedow R, Wetherill L, Wills AG, Zhou H, Boardman JD, Chen D, Choi D, Copeland WE, Culverhouse RC, Dahmen N, Degenhardt L, Domingue BW, Frye MA, Gäebel W, Hayward C, Ising M, Keyes M, Kiefer F, Koller G, Kramer J, Kuperman S, Lucae S, Lynskey MT, Maier W, Mann K, Männistö S, Müller-Myhsok B, Murray AD, Nurnberger JI, Preuss U, Rääkkönen K, Reynolds MD, Ridinger M, Scherbaum N, Schuckit MA, Soyka M, Treutlein J, Witt SH, Wodarz N, Zill P, Adkins DE, Boomsma DI, Bierut LJ, Brown SA, Bucholz KK, Costello EJ, Wit H, Diazgranados N, Eriksson JG, Farrer LA, Foroud TM, Gillespie NA, Goate AM, Goldman D, Gruzca RA, Hancock DB, Harris KM, Hesselbrock V, Hewitt JK, Hopfer CJ, Iacono WG, Johnson EO, Karpyak VM, Kendler KS, Kranzler HR, Krauter K, Lind PA, McGue M, MacKillop J, Madden PAF, Maes HH, Magnusson PKE, Nelson EC, Nöthen MM, Palmer AA, Penninx BWJH, Porjesz B, Rice JP, Rietschel M, Riley BP, Rose RJ, Shen P, Silberg J, Stallings MC, Tarter RE, Vanyukov MM, Vrieze S, Wall TL, Whitfield JB, Zhao H, Neale BM, Wade TD, Heath AC, Montgomery GW, Martin NG, Sullivan PF, Kaprio J, Breen G, Gelernter J, Edenberg HJ, Bulik CM, Agrawal A (2021). Shared genetic risk between eating disorder- and substance-use-related phenotypes: Evidence from genome-wide association studies. *Addiction Biology* 26, e12880.

18. Domingue BW, **Duncan LE**, Harrati A, Belsky DW (2021). Short-Term Mental Health Sequelae of Bereavement Predict Long-Term Physical Health Decline in Older Adults: U.S. Health and Retirement Study Analysis. *Journal of Gerontology Series B* 76(6), 1231–1240.
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Other Peer-Reviewed Articles (6 published):

54. **Duncan LE**, Deisseroth K (2023). Are novel treatments for brain disorders hiding in plain sight? *Neuropsychopharmacology* 49, 276–281.

55. Sperling EA, Tecklenburg S, **Duncan LE** (2019). Statistical inference and reproducibility in geobiology. *Geobiology* 17(3), 261–271.
56. Logue MW, Amstadter AB, Baker DG, **Duncan LE**, Koenen KC, Liberzon I, Miller MW, Morey RA, Nievergelt CM, Ressler KJ, Smith AK, Smoller JW, Stein MB, Sumner JA, Uddin M (2015). The Psychiatric Genomics Consortium Posttraumatic Stress Disorder Workgroup: Posttraumatic Stress Disorder Enters the Age of Large-Scale Genomic Collaboration. *Neuropsychopharmacology* 40, 2287–2297. [Designed figures, wrote manuscript section, edited manuscript]
57. Robinson EB, Howrigan D, Yang J, Ripke S, Anttila V, **Duncan LE**, Jostins L, Barrett JC, Medland SE, MacArthur DG, Breen G, O'Donovan MC, Wray NR, Devlin B, Daly MJ, Visscher PM, Sullivan PF, Neale BM (2014). Response to 'Predicting the diagnosis of autism spectrum disorder using gene pathway analysis.' *Molecular Psychiatry* 19, 860–861.
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Editorials, Letters, and Book Chapters:

60. Davies W, **Duncan LE** (2015). Editorial overview: Behavioral genetics. *Current Opinion in Behavioral Sciences* 2, v–vii.
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Invited Presentations and International Oral Presentations

*Denotes invited presentations. All other presentations were competitively awarded (via peer review) at international conferences at which most presentations are posters. Posters are not listed.

UPCOMING, ACCEPTED TALKS:

- Molecular Psychiatry Association (Future of Rapid Therapeutics Symposium)** March 2024
Human brain-wide, genome-wide analyses link interneurons to schizophrenia (Hawaii, USA)
- Molecular Psychiatry Association (Cortical Interneurons in Schizophrenia)** March 2024
Human Genome-Wide, Brain-Wide Datasets Reveal Novel Treatment Targets (Hawaii, USA)

COMPLETED TALKS:

- World Congress of Psychiatric Genetics** October 2023
Hot Flash GWAS Reveals Substantial Genetic Overlap w/Psychiatric Disorders (Montreal, Canada)
- *Precision Psychiatry Seminar, Harvard Medical School / Mass. General Hospital** 2023
Evidence of shared biology between hot flashes and psychiatric disorders (virtual, Boston, MA)
- *Grand Rounds, Department of Psychiatry, University of Arizona** 2022
Toward better treatments for mental health conditions: a data-driven, translational genomic approach (Phoenix, AZ)
- *SCORE Seminar, Harvard Medical School / Brigham and Women's Hospital** 2022
Genetic links between hot flashes and psychiatric disorders suggest new opportunities for treatment and shared mechanistic pathways (virtual, Boston, MA)
- *American Society of Human Genetics (ASHG) 2022 – Invited moderator** 2022
Genetics of substance use disorders (Los Angeles, CA)
- *Stanley Center of Broad Institute for MIT and Harvard** 2021
Hot Flash: A GWAS with notable interpretability and psychiatric relevance (virtual, Boston, MA)
- Society of Biological Psychiatry, Rising Star Session** 2021
Shared Genetic Effects May Partially Explain Higher Depression and PTSD Prevalence Among Women Using Hormone Therapy (HT) (virtual)
- National VA Data Science Fellowship** 2020
Polygenic Risk Scores (PRS) and Mental Health (virtual, Palo Alto, CA)
- World Congress of Psychiatric Genetics (WCPG), session co-chair** 2019
Expanding Genetics Research to Global Populations: New Results and Methods (Anaheim, CA)
- World Congress of Psychiatric Genetics (WCPG), session co-chair** 2019
Genetic Overlap and Causation: Reconceptualizing Mental and Physical Health (Anaheim, CA)
- Society of Biological Psychiatry** 2018
Genetic Pathway Analysis to Characterize the Role of Glia in Psychosis (New York City, NY)

- *Psychiatric Genomics Consortium (PGC) Worldwide Lab Meeting** 2019
Analysis across ancestry (virtual, Chapel Hill, NC)
- *State of Science Summit: Diagnosis of Trauma-Related Brain Disorders** 2018
Molecular workgroup facilitator (Silver Springs, MD)
- *MindBrain Summit, Stanford University** 2018
Decoding Genetic Effects in Everyday Life (Palo Alto, CA)
- *UCSF Biomedical Sciences Graduate Program** 2018
New Findings about PTSD, Schizophrenia, and Cross Population Genetics (San Francisco, CA)
- *Palo Alto VA Geriatric Psychiatry and Neuroscience Grand Rounds** 2018
Genomic Discovery Methods and Applications to Geriatric Populations (Palo Alto, CA)
- *Departmental Seminar at University of Colorado, Dept. of Psychology & Neuroscience** 2018
New Genetic Findings for PTSD, Schizophrenia, and More. (Boulder, CO)
- *Koenen-Robinson joint lab meeting**, Broad Institute of MIT and Harvard 2017
Polygenic Scores across Diverse Ancestry Groups (Boston, MA)
- *Williams PanLab meeting**, Stanford University, CA 2017
New Findings in PTSD, Anorexia, and Schizophrenia Genetics (Palo Alto, CA)
- *Guest Lecture at Stanford, Genetics and Society (Drs. Domingue and Freese)** 2017
An Update on Gene-Environment Interactions with Candidate Genes (Palo Alto, CA)
- *Guest Lecture at Stanford, Psychiatry Research Methods in Genomics (Dr. Lazzeroni)** 2017
Guided Tour of Psychiatric Genetics Findings (Palo Alto, CA)
- Society of Biological Psychiatry** 2018
Large Scale GWAS of PTSD by the Psychiatric Genomics Consortium (Atlanta, GA)
- *Psychiatric Genomics Consortium PTSD Meeting** 2016
First PTSD Publication and Data Release from the International PGC-PTSD Group (Dallas, TX)
- *INSPIRE Psychosis Clinical community presentation**, Stanford University, CA 2016
Genetic Influence on Psychiatric Disorders (Palo Alto, CA)
- *Etkin Lab meeting**, Stanford University 2016
Harnessing Large-Scale Genomic Studies to Understand Psychiatric Disorders (Palo Alto, CA)
- *Washington University IPNG Meeting** 2016
Recent Advances in Psychiatric Genetics: PTSD, Ancestry, Genetic Correlations (St. Louis, MO)
- *Cohen Veterans Biosciences (CVB) Genetics Meeting** 2016

- Status report for international PGC-PTSD group: Heritability & genetic correlations (Atlanta, GA)
- World Congress of Psychiatric Genetics (WCPG)** 2015
Largest GWAS Of Anorexia Nervosa Suggests Significant Loci and Overlap with Obesity-Related Traits (Toronto, Canada)
- *Cohen Veterans Biosciences (CVB) Genetics Meeting** 2015
Status report for international PGC-PTSD group: Genomics of PTSD (Boston, MA)
- *Stanford University, Department of Psychiatry** Stanford, CA. 2015
Harnessing Large-Scale Genomic Studies to Understand Psychiatric Disorders (Palo Alto, CA)
- World Congress of Psychiatric Genetics (WCPG)** 2014
GWAS of Posttraumatic Stress Disorder: 1st report from PGC-PTSD (Copenhagen, Denmark)
- International Society for Traumatic Stress Studies** 2014
Large-scale Genomic Analyses and PTSD Meet: Meta-Analytic Results from the PTSD Working Group of the Psychiatric Genomics Consortium (Miami, FL)
- *Gordon Research Conference: Genes and Behavior** 2014
Toward a Genetically Informed Taxonomy for Human Diseases and Traits (Galveston, TX)
- *Society of Biological Psychiatry – Consortium meeting** 2014
Status update for GWAS of 19,090 PTSD samples of diverse ancestry, delivered as lead analyst on behalf of the Psychiatric Genomics Consortium PTSD Group (New York City, NY)
- Stanley Center for Psychiatric Genetics Meeting, Broad Institute of MIT & Harvard** 2014
Comparative results from nine annotation tools as applied to two large datasets (Boston, MA)
- *Genetic and Neural Complexity in Psychiatry (GNCP) Meeting, Chair** 2013
Genetic Architecture of Complex Neuropsychiatric Disorders and Traits (Santorini, Greece)
- *Brain Health Colloquium at Harvard School of Public Health** 2013
From Gene-Environment Interactions to Genetic Sequence Data: A Tour of Psychiatric Genetics Findings (Boston, MA)
- *Annual Meeting of NIDA & NIMH Biostatistics and Epidemiology** 2013
Capitalizing on Emerging Genomic Sequencing Datasets: Leveraging Biological Data to Enable Functional Discoveries (New York City, NY)
- World Congress of Psychiatric Genetics (WCPG)** 2012
Evaluation of Algorithms for In Silico Prediction of Deleterious Mutations in a Large Whole-exome Sequencing Study (Hamburg, Germany)
- *Center for Depression, Anxiety, and Stress Research, McLean Hospital** 2011
Gene-Environment Interactions in Psychiatry: True Results or Type I Errors? (Belmont, MA)

***Psychiatric Genetics and Translational Research Seminar, Mass. Gen./Harvard Med.** 2011
 Gene-Environment Interactions in Psychiatry: True Results or Type I Errors? (Boston, MA)

Teaching Experience

2021-	Personal Genomics Revolution	Stanford Freshman Seminar Course	Faculty
2020	Genetics section	Neuroscience course Stanford residents	Faculty
2019	Genetics section	Neuroscience course Stanford residents	Faculty
2017	Statistical Genetics	GINGER Program @ Harvard SPH	Faculty
2016	Statistical Genetics	Cape Town, South Africa	Faculty
2012	Research Methodology	Koc University, Istanbul Turkey	Faculty
2007	Statistics	University of Colorado at Boulder	TA
2006	Statistics	University of Colorado at Boulder	TA
2005	Research Methods	University of Colorado at Boulder	TA
2006	Psychology of Perception	University of Colorado at Boulder	TA
2007	Psychology of Personality	University of Colorado at Boulder	TA

Clinical Experience

Postdoctoral Clinician	2016 – 2017
<i>Stanford University INSPIRE Clinic for Treatment of Early Psychosis</i>	
Clinical Psychology Intern	2010 – 2011
<i>McLean Hospital / Harvard Medical School</i>	
Predoctoral Clinician	2005 – 2010
<i>Raimy Psychology Clinic, University of Colorado at Boulder</i>	
Predoctoral Clinician	2007 – 2009
<i>Robert D. Sutherland Center for the Evaluation and Treatment of Bipolar Disorder</i>	

Grant Reviewing

NIMH grant review: R01 and U01 applications	
Precision Mental Health: Develop Tools to Inform Treatment Selection in Depression (UG3/UH3)	
2024/05 ZMH1 ERB-L (05) S	2024
Genetic Architecture of Mental Disorders in Ancestrally Diverse Populations (U01)	
2022/05 ZMH1 ERB-M (06) S	2022
Genetic Architecture of Mental Disorders in Ancestrally Diverse Populations	
2021/05 ZMH1 ERB-G (04) R	2021
Wellcome Trust grant review	2022
Yale Women's Health Research	2019

Editing & Reviewing

- **Editing:**
 - 2019 Editorial Board *Neuropsychopharmacology*
 - 2015 Invited guest editor for a special issue of *Current Opinions in Behavioral Sciences*
Behavioral Genetics edition

20xx Multiple editorial positions declined

• **Ad hoc reviewing (30 journals):**

Acta Neuropsychiatrica
Alcoholism: Clinical and Experimental Research
American Journal of Medical Genetics – Part B: Neuropsychiatric Genetics
Behavioral Genetics
Biological Psychiatry
BioMed Central - Neuroscience
Cell
Clinical Psychology: Science and Practice
Genes
Genes, Brain, and Behavior
Genetics in Medicine
JAMA Psychiatry
Journal of Affective Disorders
Journal of Clinical Psychiatry
Journal of Epidemiology
Journal of Psychiatric Research
Journal of the American Academy of Child and Adolescent Psychiatry (JAACAP)
Journal of Traumatic Stress (JoTS)
Nature
Neurobiology of Stress
Neuropsychopharmacology
Molecular Psychiatry
Nature
Nature Communications
Nature Genetics
PLOS Genetics
PLOS ONE
Population Studies
Schizophrenia Bulletin
Translational Psychiatry

Service at Stanford

Diversity Equity and Inclusion (DEI) Advisory Committee (3-year term)	2023 - 2025
Psychiatry Department Awards Committee (2 year term)	2021 - 2023
Midi (Mentorship Initiative for Diversity and Inclusion) Program Mentor	2021 - 2022
Faculty Search Committee Member	2020-
Mentoring of Stanford Trainees	2016-