BENJAMIN F. VOIGHT CURRICULUM VITAE

Associate Professor
Department of Systems Pharmacology and Translational Therapeutics and Department of Genetics
University of Pennsylvania – Perelman School of Medicine
10-126 Smilow Center for Translational Research
3400 Civic Center Boulevard
Philadelphia, PA, 19104

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CV last updated: February 2023

EMPLOYMENT HISTORY

2017–Present Associate Professor (with tenure),

Department of Systems Pharmacology and Translational Therapeutics

Department of Genetics

University of Philadelphia - Perelman School of Medicine

Philadelphia, PA

2012–2017 Assistant Professor, Department of Genetics

University of Philadelphia - Perelman School of Medicine

2011–2017 Assistant Professor, Department of Systems Pharmacology and

Translational Therapeutics, University of Pennsylvania

2006–2011 Postdoctoral Research Fellow (2006-2009)

Research Scientist (2009-2011)

Advised by Drs. Mark Daly and David Altshuler

Massachusetts General Hospital and

The Broad Institute of Harvard and MIT, Cambridge, MA

EDUCATION

2006 Ph.D., Advised by Drs. Jonathan Pritchard and Nancy Cox

Human Genetics, University of Chicago

2001 B.S. in Biology and B.A. Mathematics

University of Washington, Seattle

[Transferred from Gonzaga University, Spokane, WA, in 1999]

CURRENT RESEARCH SUPPORT

As PI:

2020-2025

UM1 DK126193. "Functional interrogation of T2D-associated genes in human stem-cell derived models and mice" (MPIs: P. Seale, **B. Voight**, D. Rader, S. Grant, K. Kaestner, W. Yang)

Objective: Using human genetics data and computational prioritization tools, identify and functionally validate candidate genes underlying susceptibility to type 2 diabetes.

2022-2023

Institute of Translational Medicine and Therapeutics Pilot Grant. "Interplay of obesity and volumetric breast density with respect to breast cancer risk" (Pls: A.M. McCarthy, D. Kontos, B. Voight)

Objective: Perform genome-wide association for volumetric breast density and use human genetics to perform causal inference

Additional:

2022-2027

VA BX006159: "Leveraging the genetics of carotid stenosis for identifying novel risk factors and therapeutic opportunities" (PI: S. Damrauer). Role: Co-I.

between volumetric breast density and risk to cancer.

Objective: Use human genetics data to identify and characterize causal risk factors underlying carotid stenosis.

2020-2024

U01 DK123594: "The human pancreas analysis program for type 2 diabetes." (Pls: K. Kaestner, A. Naji). Role: Co-I.

Objective: Obtain primary pancreatic islet specimens from deceased donors, perform multi-omics profiling and in-vivo functional characterization of islet function, and release all data to

2020-2024

R01 DK087635: "Epigenetic Landscape of Chronic Kidney Disease." (PI: K. Susztak). Role: Co-I

the research community.

Objective: Perform large-scale association studies for measures of kidney function (eGFR) and perform multi-omics profiling to identify variants and genes underlying susceptibility to chronic kidney disease.

2016-2026

UL1 TR001878: Institutional Clinical and Translational Science Award. Role: Key personnel.

Objective: This provide modest support for my training role as Associate Director for the Bioinformatics concentration in the Masters in Translational Research program. In this role, I serve as a bioinformatics mentor for clinicians who aim to develop bioinformatics training towards developing independence as translational researchers.

2021-2023

T01 BX003362: "Genetics of Cardiometabolic Diseases in the VA Population." (PI: P. Tsao, K-M. Chang). Role: Co-I

Objective: Using human genetics data from the Million Veteran Program to identify and characterize risk factors for complex metabolic disease, including type 2 diabetes, cardiovascular disease, and liver disease.

2021-2024

R01 Al146026: "Promoter interactome-aided mapping of unexplored CVID genetic landscapes." (PI: N. Romberg). Role: Co-I Objective: To identify causal genets underlying CVID, our contribution is to create maps of variation associated with change in gene expression (eQTLs) in primary pediatric immune tissues (obtained from tonsils).

COMPLETED SUPPORT

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2020-2022

Penn Chronobiology and Sleep Institute Pilot Project. "Discovery and analysis of human genetic variation associated with circadian gene expression levels" (Pls: B. Voight, C. Brown, no award number)

Objective: A pilot project to develop computational tools to identify variation associated with gene expression over circadian (24 hour) time.

2014-2021

NIH R01/R56 DK101478: "Algorithms to identify non-coding mutational burden and disease-relevant pathways"

Objective: The goal of this proposal was to develop computational approaches to understand the role of non-coding mutational burden in type 2 diabetes.

2019-2020

T2D Accelerating Medicine Partnerships (PIs: K. Susztak, B. Voight, M. Lazar, C. Brown), "Prioritizing causal genes and variants for diabetic kidney disease"

Objective: The goal of this proposal was to identify genetic variation associated with change in gene expression in primary kidneys of patients with diabetic kidney disease.

2019-2020

Linda Pechenik Montague Investigator Award (no award number)
Objective: This (non-project) award supported human genetics and causal inference studies across hematopoietic and anthropometric

traits.

2018-2019

NIH R01 DK101478 S1, Supplemental support to applying developed methods to Alzheimer's disease and related traits

Objective: The purpose of this supplement was to perform multitrait association studies between Alzheimer's disease and neurocognitive traits and cardiometabolic traits.

2016-2019

ITMAT Maturational Human Biology Pilot Grant: "Characterizing the genetic determinants of pubertal timing and body weight regulation"

	Objective: The goal of this pilot study was to perform association studies for puberty and obesity during pediatric development.
2012–2016	AHA 13SDG14330006: "Human genetics of high-density lipoprotein to elucidate the etiology of heart disease" Objective: The goal of this study was to further explore the role of
	variants linked to lipid levels and heart disease risk, and develop new tools for polygenic risk score prediction.
2013–2014	H1201 W.W. Smith Charitable Trust: "Identifying the etiological basis for heightened risk of cardiovascular disease in the context of glycemic disorder"
	Objective: The goal of this study was to perform multi-trait association and causal inference studies between type 2 diabetes and heart disease.
2012–2014	Alfred P. Sloan Foundation Fellowship (No award number) Objective: This fellowship supported computational methods to identify balancing selection and characterize the frequency of polymorphism levels in human populations
<u>Additional:</u> 2021–2022	MVP-DOE2: "Phenotypic and Genomic Architecture of Cardiovascular Disease Subtypes." (PI: S. Damrauer). Role: Co-I
	Objective: Use human genetics data to characterize the basis of peripheral artery disease and perform causal inference studies.
2019-2020	NIH R01 HG010067: "Network-based algorithms for target identification and drug repositioning from genetic associations," Role: Co-I (PI: C. Greene)
	Objective: Apply tools from network-based approaches with human genetics to identify leads for drug repurposing.
2018–2021	MVP-DOE2, "Phenotypic and Genomic Architecture of Cardiovascular Disease Subtypes" Role: Co-I (PIs: S. Damrauer) Objective: Use human genetics data to characterize the basis of peripheral artery disease and perform causal inference studies.
2015–2016	March of Dimes Preterm Birth Research Center Grant. (Role: Co- Investigator). Objective: To characterize the genetics of pre-term birth and causal genes.

PENDING SUPPORT

As PI:

2023–2028 R01 DK136823. "Systematic target validation for non-alcoholic fatty liver

disease using computational approaches and in vivo deep phenotyping"

(MPIs: **B. Voight**, M. den Hoed)

Objective: To characterize causal variants and genes for nonalcoholic fatty liver disease and perform medium-throughput functionally validation of candidates using the zebrafish model

system using high dimension imaging analysis.

AWARDS AND HONORS

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2019	Recipient of the Linda Pechenik Montague Investigator Award (see also Grants)	
2017	Penn Medicine Award of Excellence Recipient: The Michael S. Brown New Investigator Research Award	
2017	Recipient of the 2014 Presidential Early Career Award for Scientist and Engineers (PECASE), Department of Health and Human Services	
2012	Selected Alfred P. Sloan Research Fellow (see also Grants)	
2009	Semi-finalist, Trainee Research Award, 59 th Meeting of the American Society of Human Genetics	
2007	Team Award for Outstanding Research, Clinical Research Day, Massachusetts General Hospital	
2006	PhD Dissertation Award, Best in the Biological Sciences Division, University of Chicago	
2006	New York Times Front Page News article, "Still evolving, human genes tell new story" (Voight et al, see Ref #3)	
2000-2006	Numerous travel awards and scholarships (MSRI/PMMB, Keystone Symposium, NHGRI, etc.)	
1998-1999	McDonald's Fellowship for Biological Studies, Gonzaga University	
1997-1999	Academic Merit Scholarship and Academic Debate Scholarship, Gonzaga University	

PROFESSIONAL ACTIVITIES

2018-Present	Chair, Genomics and Computational Biology Graduate Group, University of Pennsylvania
2018-Present	Statistical Reviewer, JAMA Network Open
2018-Present	Associate Director (Bioinformatics Concentration) of the Master of
	Science in Translational Research program, University of Pennsylvania
2017-Present	Associate Editor, Circulation: Genomic and Precision Medicine
2012-Present	Member: The American Diabetes Association
	Member: The American Heart Association
2011-Present	Member of numerous Penn internal committees (e.g. Curriculum
	Committee for GCB and GGR, task force for graduate biostatistics,
	CTSA KL2/ITMAT fellowship reviewer, IBI Faculty Search, Genetics
	Faculty Search, PennOmics Governance, ITMAT Junior Investigator
	Symposium, etc.).

2002-Present	External referee for numerous journals (Nature, Nature Genetics, Cell,
2002 1 1000111	Lancet, JAMA, PLoS Medicine, Science Advances, Bioinformatics,
	ATVB, JACC, AJHG, many others.)
2001-Present	Member: American Society of Human Genetics
2022	Reviewer, VA 2023/01 ZRD1 GAST-L (01) 1, BL/CS Merit Review
2022	Reviewer, NIH 2022/10 GHD
2022	Reviewer, NIH ZRG1 2022/05 ZRG1 GGG-S(55) R (PAR-20-117)
2020	Reviewer, NIH ZRG1 PSE-C(90) Special Emphasis Panel,
2020	Reviewer, NIH RFA-DK19-014, "Catalyst Award in Diabetes, Endocrinology and Metabolic Diseases"
2018–2020	Associate Editor, <i>bioverlay.org</i>
2015–2018	Vice Chair, Genomics and Computational Biology Graduate Group,
2010 2010	University of Pennsylvania
2012–2018	Co-organizer of the Penn Bioinformatics Forum (with Yoseph Barash)
2012–2018	Editorial Review Board, <i>Frontiers</i> (Pop Gen, Stat Gen)
2015–2017	Editorial Board Member, Circulation: Cardiovascular Genetics
2016-2017	Member, American Heart Association's Institute for Precision
	Cardiovascular Medicine Data Science and Technology Committee
2016	Reviewer, NIH Special Emphasis Panel for RFA-DK-15-025,
	NIH/NIDDK
2016-17, 2019	Program Committee, RECOMB Satellite Meeting on Computational
	Methods in Genetics
2013-14, 2017	Reviewer for American Heart Association GTOE Study Section
2013–2014	Associate Scientific Advisor, Science Translational Medicine
2013	Ad hoc reviewer, NIH Special Emphasis Panel for K23/K99 Career
INVITED I ECT	Awards, NIH/NIEHS
	Awards, NIH/NIEHS TURES (outside Philadelphia, since 2017 promotion to Associate)
INVITED LECT	Awards, NIH/NIEHS TURES (OUTSIDE PHILADELPHIA, SINCE 2017 PROMOTION TO ASSOCIATE) Accelerating Medicines Partnerships Common Metabolic Disease
2023	Awards, NIH/NIEHS TURES (OUTSIDE PHILADELPHIA, SINCE 2017 PROMOTION TO ASSOCIATE) Accelerating Medicines Partnerships Common Metabolic Disease Parliament Meeting, Boston, MA
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2018	Million Veteran's Program Science Conference, Nashville, TN
2017	Center for Computational Medicine and Bioinformatics Seminar Series,
	University of Michigan, Ann Arbor, MI
2017	5 Points Seminar Series, New York Genome Center, New York, NY
2017	Bioinformatics Seminar Series, GlaxoSmithKline, King of Prussia, PA
2017	67 th Annual Meeting of the American Society of Human Genetics
	(Invited Session Organizer), Orlando, FL
2017	Five Points Lecture Series, New York Genome Center, New York, NY
2017	Genetics and Bioinformatics Seminar Series, Glaxo-Smith-Kline, King of
	Prussia, PA

INVITED LECTURES (OUTSIDE PHILADELPHIA, 2011-2017)

2017	American Diabetes Association's 77th Annual Meeting, San Diego, CA
2017	Genome Sciences Seminar Series, Center for Public Health Genomics,
	University of Virginia, Charlottesville, VA
2016	Program in Quantitative Genomics Seminar Series, Harvard School of
	Public Health, Boston, MA
2016	Frontiers in Bioinformatics and Systems Biology Seminar Series,
	University of California, San Diego, CA
2016	Genetics Institute Seminar Series, Vanderbilt University, TN
2016	Institute for Personalized Medicine seminar Series, Icahn School of
	Medicine, Mount Sinai, NY
2016	Seminar Series, University of California at Los Angeles, CA
2016	CIHR – Strategic Training for Advanced Genetic Epidemiology
	International Speaker Seminar Series, University of Toronto, Canada
2016	New York Area Population Genomics Workshop, Princeton University
2015	Department of Genetics Seminar Series, Yale University, NH
2013	Bioscience Conference on Genomics in Medicine, Copenhagen,
	Denmark
2013	Keynote Lecture, American Heart Association Epi NPAM Council's
	Spring Conference, New Orleans, LA
2013	73 rd Meeting of the American Diabetes Association, Chicago, IL
2012	62 nd Annual Meeting of the American Society of Human Genetics
	(Invited Session Organizer), San Francisco, CA
2012	Medical Population Genetics Seminar Series, The Broad Institute of
	Harvard and MIT, Cambridge, MA
2012	Department of Biology Seminar Series, University of Vermont,
	Burlington, VT
2012	Session Co-Chair, 25 th Annual Cold Spring Harbor Meeting, Biology of
	Genomes, Cold Spring Harbor, NY
2011	1 st Annual Illumina America's Scientific Summit, Clearwater Beach, FL
2011	Botnia 20th Anniversary Symposium, Lund University, Vaasa, Finland
2011	The 2011 European Human Genetics Conference, Amsterdam RAI, The
	Netherlands
2011	National Institute of Genomic Medicine in Mexico, Ciudad de México,
	Mexico

TEACHING ACTIVITIES

2013–2019,	Co-Director, Introduction to Bioinformatics (CIS/MTR/GCB535)
2021-Present	Undergrad/grad/post-doc/MD/MD+PhD, ~55+ students
	Includes lectures and administrative responsibilities.
	100+ hours total, 50+ direct contact
2019–Present	Guest Lecturer, Statistics for Genomics and Biomedical Informatics
	(GCB533)
2019–Present	Guest Lecturer, Professional Development Series, MSTR Program
2015-Present	Guest Lecturer, CTSA Summer Internship Seminar
2022	Director, Introduction to Bioinformatics - Independent Study (GCB999)
2014	Guest Lecturer, Biology of Human Disease (BIOL015)
2013	Guest Lecturer, Advanced Computational Biology (GCB537)
2012	Guest Lecturer, Introduction to Genome Sciences (GCB534)
2012-2013	Lecturer, Medical School Module One, Genetic Foundations of Disease
2006–2011	Organizer of several workshops in statistical genetic analysis

STUDENT AND POSTDOCTORAL MENTORSHIP

CURRENT MENTEES

2021–Present	Da (Mia) Lee (PhD Student, PGG)
2021-Present	Mitch Conery (PhD Student, GCB, joint with Struan Grant)
	- Selected for Genomics T32 (2022)
2021-Present	Mary Ann Hazuga (PhD Student, GCB, joint with Struan Grant)
2018-Present	Chris Adams (PhD Student, GCB)
2018-Present	Will Bone (PhD Student, GCB, joint with Marylyn Ritchie)
	- AHA Predoctoral Fellowship (2020-2022)
	- 2020 ASHG Abstract Reviewer's Choice Award
	- Travel Award, 2021 CHARGE Consortium Meeting (Virtual)

PREVIOUS MENTEES

POST-DOCTORAL FELLOWS

2020–2022	Louise Wang (Post-doc, MD Gastroenterology Fellow)
	- VA CDA Award (2022)
	- Now: Assistant Professor of Medicine, Yale School of Medicine,
	Section of Digestive Diseases
2015–2021	Chris Thom (Post-doc, MD/PhD Neonatology Resident)
	- CHOP Senior Resident Research Award (2017)
	- Selected for Pediatrics T32 (2017)
	- Foerderer Research Award (2018)
	- Marshall Klaus Neonatal-Perinatal Research Award (2019)

- Philadelphia Perinatal Society Thomas Boggs Research Award (2019)

- 61st American Society of Hematology Annual Meeting Abstract Achievement Award (2019)

- CHOP K-readiness Award (2019)
- Eastern Society of Pediatric Research Trainee Young Investigator Award Finalist (2020)
- CHOP Distinguished Research Trainee Award (2020)
- SPR Fellows' Basic Science Award (2020)
- K99 Award Recipient (2021)
- Now: Assistant Professor of Pediatrics, Children's Hospital of Philadelphia
- 2015–2020 Diana Cousminer (Post-doc, joint with Struan Grant)
 - Young Investigator Travel award, ASBMR Bone-omics Symp. (2016)
 - ADA Postdoc Fellowship Award Recipient (2016-2018)
 - ASBMR Young Investigator Award (2018)
 - CHOP Distinguished Research Trainee Award (2019)
 - K99 Award recipient (2019-2021)
 - ASHG Charles J. Epstein Post-doc Award Recipient (2019)
 - Now: Scientific Leader, GSK
- 2012–2017 Paul Babb (Post-doc)
 - Post-doc Symposium Poster Award (2014)
 - Now, Research Scientist, Karius Inc.
- 2015–2017 Kim Lorenz (Post-doc)
 - Selected for a Diabetes/Endocrine Post-doc T32 (2015-2016)
 - Now: Bioinformatician in my group

PHD CANDIDATES

2016–2021 Katerina Gawronski (PhD Student, GE, joint with Casey Brown)

- Selected for Genetics T32 (2016-2018)
- American Polish Cultural Society Scholarship (2016-2019)
- SAGES Poster Award (2018)
- AHA Predoctoral Fellowship (2019-2021)
- ASHG Charles J. Epstein Pre-doc Award Semi-Finalist (2019)
- Now: Senior Consultant, ClearView (Newton, MA)
- 2014–2019 Kelsey Johnson (PhD Student, GE)
 - Selected for Genetics T32 (2014-2016)
 - Now: Post-doc, Blehkman and Albert Labs (U. of Minnesota)
- 2014–2018 Katie Siewert (PhD Student, GCB)
 - Selected for Genomics and Computational Biology T32 (2015-2017)
 - 2019 Recipient Saul Winegrad Award for Best Dissertation (GCB)
 - Now: Senior Research Scientist in Computational Genomics, Vertex
- 2012–2016 Varun Aggarwala (PhD Student, GCB)
 - Semi-finalist for the ASHG Charles J. Epstein Trainee Award (2015)
 - Penn Genetics Retreat Poster Award (2015)
 - Post-doc, Faith Lab, Mt. Sinai

Master's Candidates

2018–2021	Zhuoran Ding (Masters in Biostatistics, GGEB)
	- Now: PhD Student, GGEB, Univ. of Pennsylvania
2018	Kaushik Visvanathan (Master's student, CS)
2016-2018	Onur Yörük (Masters in Genomics and Computational Biology, GCB)

UNDERGRADUATE / POST-BACS

2022	Sanjana Adurty (Undergraduate, SAS)
2020–2022	Brian Chen (Undergraduate, SAS)
2018–2020	Sanjana Adurty (Undergraduate, SAS)
	- Now: Medical School, Univ. of Pittsburgh
2015–2017	Rachael ("Rocky") Aikens (Swarthmore Undergrad)
	- Penn Summer Undergrad Internship Program (2016)
	- Penn CTSA Summer Internship (2015)
	- Now: Statistician, Mathematica (Policy Research)
2015–2016	David Nicholson (Post-Bac)
	- Selected for the Penn Summer Undergrad Intership Program (2014)
	- Selected for the PennPrep Program (2015)
	- Now: Data Scientist at Digital Science and Research Solutions Ltd.
2013–2015	Peter Yin (Undergrad)
	- Undergraduate Research and Fellowship Recipient (2015)
	- Now: Automation Engineer, Zymogen, Emeryville CA

PUBLICATIONS (FROM 155 PAPERS, H-INDEX=82, CITATIONS=71,579) LINK TO FULL PUBLICATION LIST:

https://www.ncbi.nlm.nih.gov/myncbi/benjamin.voight.1/bibliography/public/

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In Press

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SELECTED KEY PUBLICATIONS [FROM >150 PAPERS]

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