

Curriculum Vitae WUSM Format
Sheng Chih Jin, Ph.D.

Date: 8/15/2024

Name Jin, Sheng Chih

Address, Telephone and email:

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Present Position:

April 2020 – Present, Assistant Professor of Genetics and Pediatrics

Education:

National Chiao Tung University, Hsinchu, Taiwan, 2000 – 2004
B.S., Applied Mathematics

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA, 2006 – 2008
ScM, Biostatistics

Washington University School of Medicine, St. Louis, MO, USA, 2010 – 2014
Ph.D., Human & Statistical Genetics (Advisors: Alison Goate and Carlos Cruchaga)

Yale School of Medicine, New Haven, CT, USA, 2014 – 2018
Postdoctoral Fellow (Advisors: Richard P. Lifton, Martina Brueckner, and Hongyu Zhao)

Rockefeller University, New York, NY, USA, 2018 – 2020
Postdoctoral Fellow (Advisors: Richard P. Lifton, Martina Brueckner, and Hongyu Zhao)

Academic Positions / Employment:

2020 – Assistant Professor of Genetics and Pediatrics
Washington University School of Medicine

Honors and Awards:

- 2007 Cancer Research Training Award, Biostatistics Branch, Division of Cancer Epidemiology & Genetics, National Cancer Institute, NIH
- 2007 Departmental Scholarship, Department of Biostatistics, Johns Hopkins University
- 2011 Lucille P. Markey Special Emphasis Pathway in Human Pathobiology Fellowship, Markey Foundation, Washington University School of Medicine
- 2012 Alzheimer's Disease International Conference Travel Fellowship, Alzheimer's Association
- 2012 Best Oral Presentation Award, Human and Statistical Genetics Program 2012 Retreat
- 2014 Finalist, Fourth Annual Hope Center Retreat Poster Session, Hope Center for Neurological Disorders, Washington University School of Medicine
- 2014 Howard Hughes Medical Institute Postdoctoral Fellowship, Department of Genetics, Yale University School of Medicine
- 2015 James Hudson Brown – Alexander Brown Coxe Postdoctoral Fellowship in the Medical Sciences, Yale University School of Medicine
- 2018 American Heart Association Postdoctoral Fellowship
- 2019 NIH/NHLBI K99/R00 Pathway to Independence Award
- 2019 Postdoctoral Association Career Development Award, Rockefeller University
- 2020 Rockefeller University Nominee, Blavatnik Regional Award for Young Scientists
- 2021 Children's Discovery Institute Faculty Scholar, St. Louis Children's Hospital
- 2021 Hydrocephalus Association Innovator Award
- 2022 Pediatric Cardiac Genomics Consortium and Cardiovascular Development Data Resource Center Challenge Prize

Editorial Responsibilities:

- 2013 – **Ad Hoc Reviewer**, Journal of the American College of Cardiology, Trends in Genetics, Genome Research, European Heart Journal, npj Genomic Medicine, Brain, Molecular Neurodegeneration, Genomics, Proteomics and Bioinformatics, Human Genetics, BMC Neurology, Journal of Alzheimer's Disease, Alzheimer's & Dementia, Genes, Journal of Medical Genetics, Biomolecules, STAR Protocols, Journal of Personalized Medicine
- 2013 – **Review Editor**, Frontiers in Genetics, Neurogenomics Section

National Panels, Committees, Boards:

N/A

Community Service Contributions:

- **University Appointments and Committees**

- 2020 – **Member**, DBBS Admissions Committee B, Washington University School of Medicine
- 2023 – **Co-organizer**, Hope Center Monday Noon Seminars
- 2024 – **Member**, MD Admissions Committee, Washington University School of Medicine

- **Professional Societies and Organizations**

- 2011 – **Member**, American Society of Human Genetics
- 2015 – **Member**, American Heart Association
- 2023 **Planning Committee**, Hydrocephalus Association & Rudi Schulte Research Institute Research Workshop
- 2024 – **Member**, American Society of Human Genetics Digital Learning Committee

Major Invited Professorships and Lectureships:

- **Regional**

- 2017 “Genomics Approaches to Understand the Genetic Architecture of Congenital Heart Disease and Neurodevelopmental Disorders” / Genetic Department Seminar Series / Invited Speaker / Washington University in St. Louis, St. Louis, MO
- 2021 “Genes and Mechanisms of Cerebral Palsy and Other Pediatric Movement Disorders” / Pediatric Neurology Research Working Group / Invited Speaker / Washington University in St. Louis, St. Louis, MO
- 2021 “Genes and Mechanisms of Cerebral Palsy and Other Pediatric Movement Disorders” / Genetics and Genomic Medicine Case Conference / Invited Speaker / Washington University in St. Louis, St. Louis, MO
- 2021 “Human Genetics and Molecular Mechanisms of Congenital Hydrocephalus” / Department of Developmental Biology Seminar Series / Invited Speaker / Washington University in St. Louis, St. Louis, MO
- 2021 “Computational Genomics for Congenital Disorder Research” / Department of Computer Science & Engineering Colloquia Series / Invited Speaker / Washington University in St. Louis, St. Louis, MO
- 2022 “Adventures in Computational Functional Genomics” / MSTP Future of Medicine Seminar / Invited Speaker / Washington University in St. Louis, St. Louis, MO
- 2022 “Genes and Mechanisms of Cerebral Palsy and Other Pediatric Movement Disorders” / 2022 Department of Genetics Retreat / Invited Speaker / Washington University in St. Louis, St. Louis, MO

- 2022 “Molecular Genetics and Complex Inheritance of Congenital Heart Disease” / Center for Cardiovascular Research Seminar Series / Invited Speaker / Washington University in St. Louis, St. Louis, MO
- 2023 “Human Genetics and Functional Genomics of Rare Diseases” / Intellectual and Developmental Disabilities Research Center Inaugural Symposium / Invited Speaker / Washington University in St. Louis, St. Louis, MO
- 2024 “Unraveling the Mechanism Underlying Congenital Hydrocephalus through Multi-omics and Stem Cell Models” / Center of Regenerative Medicine Faculty Retreat / Invited Speaker / Washington University in St. Louis, St. Louis, MO

- **National**

- 2017 “Expanded Whole Exome Sequencing Cohort Reveals Additional Novel CHD genes” / NHLBI Bench to Bassinet Program Annual Face-to-Face Meeting / Selected Oral Presentation / Rockville, MD
- 2018 “Genomics Approaches to Understand the Genetic Architecture of Congenital Heart Disease and Neurodevelopmental Disorders” / Eugene McDermott Center for Human Growth and Development Department Seminar Series / Invited Speaker / University of Texas Southwestern Medical Center, Dallas, TX
- 2018 “Genomics Approaches to Understand the Genetic Architecture of Congenital Heart Disease and Neurodevelopmental Disorders” / Institute for Genomic Medicine Seminar Series / Invited Speaker / Nationwide Children’s Hospital, Columbus, Ohio
- 2019 “Genomics Approaches to Understand the Genetic Architecture of Congenital Heart Disease and Neurodevelopmental Disorders” / Waisman Center Seminar Series / Invited Speaker / University of Wisconsin – Madison, Madison, WI
- 2019 “Genomics Approaches to Understand the Genetic Architecture of Congenital Heart Disease and Neurodevelopmental Disorders” / Mindich Child Health and Development Institute Seminar Series / Invited Speaker / Icahn School of Medicine at Mount Sinai, New York, NY
- 2020 “Exome Sequencing Implicates Genetic Disruption of Prenatal Neurogliogenesis in Sporadic Congenital Hydrocephalus” / 2020 American Society of Human Genetics, Virtual Meeting / Selected Oral Presentation / Virtual
- 2021 “Genes and Mechanisms of Cerebral Palsy and Other Pediatric Movement Disorders” / Boston Taiwanese Biotechnology Association Monthly Seminar Series / Invited Speaker / Boston Taiwanese Biotechnology Association / Virtual
- 2022 “Integrated analysis of genome sequencing, exome sequencing, and transcriptome profiling in congenital hydrocephalus” / Hydrocephalus Association Network for Discovery Science Webinar Series / Invited Speaker / Virtual

- 2023 “Molecular Genetics and Complex Inheritance of Congenital Hydrocephalus” / Hydrocephalus Association & Rudi Schulte Research Institute Research Workshop / Invited Speaker / Dallas, TX
- 2023 “Discovery of Uniparental Disomy in 3,694 Congenital Heart Disease Trios” / NHLBI Bench to Bassinet Research Program Annual Face-To-Face Conference / Invited Speaker / Arlington, VA

- **International**

- 2012 “Deep Resequencing of GWAS Loci Associated with Alzheimer's Disease” / 2012 Alzheimer's Association International Conference / Selected Oral Presentation/ Vancouver, Canada
- 2014 “Novel Coding Variants in *TREM2* Increase Risk for Alzheimer's Disease” / 2014 Alzheimer's Association International Conference / Selected Oral Presentation/ Copenhagen, Denmark
- 2016 “Unraveling the Genetic Basis of Congenital Heart Disease” / Institute of Biomedical Sciences Seminar Series / Invited Talk / Academia Sinica, Taiwan
- 2017 “Integrated Genomics Characterization of Complex Inheritance in Congenital Heart Disease” / Institute of Biomedical Sciences Seminar Series / Invited Talk / Academia Sinica, Taiwan
- 2018 “Mutations in GTPase Signal Transduction Genes in Cerebral Palsy” / 2nd International Cerebral Palsy Genomics Consortium Conference / Invited Keynote Presentation / Zhengzhou, China
- 2018 “Integrated Genomics Characterization of Complex Inheritance in Congenital Heart Disease” / Institute of Medical Genomics and Proteomics Seminar Series / Invited Talk / National Taiwan University College of Medical, Taiwan
- 2019 “A Major Role for Genes that Control Developmental Neuritogenesis in Cerebral Palsy” / 3rd International Cerebral Palsy Genomics Consortium Conference / Invited Talk / Anaheim, CA
- 2024 “Revealing Molecular and Cellular Mechanisms of Congenital Anomalies Using Integrative Genomics” / Institute of Medical Genomics and Proteomics Seminar Series / Invited Talk / National Taiwan University College of Medicine, Taiwan
- 2024 “Revealing Molecular and Cellular Mechanisms of Congenital Anomalies Using Integrative Genomics” / Institute of Molecular Biology Seminar Series / Invited Talk / Academia Sinica, Taiwan
- 2024 “Revealing Molecular and Cellular Mechanisms of Congenital Anomalies Using Integrative Genomics” / Academic forum / Invited Talk / Kaohsiung Medical University

Consulting Relationships and Board Memberships:

N/A

Internal Review Work

2021	Ad Hoc Reviewer , Clinical and Translational Research Funding Program, Washington University Institute of Clinical and Translational Sciences
2022	Ad Hoc Reviewer , NGI Pilot Awards, Washington University NeuroGenomics and Informatics Center
2022	Ad Hoc Reviewer , Clinical and Translational Research Funding Program, Washington University Institute of Clinical and Translational Sciences
2024	Ad Hoc Reviewer , NGI Pilot Awards, Washington University NeuroGenomics and Informatics Center

External Review Work

2022	Grant Reviewer , Hydrocephalus Association Innovator Award
2023	Ad Hoc Reviewer , NIH, Cardiovascular and Respiratory Diseases (CRD) Study Section
2023	Grant Reviewer , Hydrocephalus Association Innovator Award
2023	Grant Reviewer , Sidra Medicine Precision Medicine Challenge Award (IRF 24)
2023	Ad Hoc Reviewer , NIH ZMH1 ERB-S (02) S - Data Analysis and Coordination Center for the PsychENCODE Consortium (U24)
2024	Ad Hoc Reviewer , NIH, Genetics of Health and Diseases (GHD) Study Section
2024	Ad Hoc Reviewer , NIH, Cardiovascular and Respiratory Diseases (CRD) Study Section
2024	Abstract Reviewer , American Society of Human Genetics Meeting 2024 in Denver, Colorado

Research Support

- **Governmental**

Title: WashU Somatic Mosaicism across Human Tissues (SMaHT) Program.
 Organizational Center
 Agency: NIH U24NS132103
 Role: Co-Investigator
 Duration: 4/15/2023–03/31/2028
 Amount: \$7,470,939 total costs

Title: WashU-VAI Somatic Mosaicism across Human Tissues (SMaHT) Program.
 Genome Characterization Center
 Agency: NIH UM1DA058219
 Role: Co-Investigator
 Duration: 5/01/2023–04/30/2028
 Amount: \$1,499,999 total costs

Title: INTERCEPT: Integrated Research Center for Human Pain Tissues
 Agency: NIH/NINDS U19NS130607
 Role: Co Principal Investigator (Project 1: Milbrandt/DiAntonio/Jin)
 Duration: 12/01/2022–11/30/2027
 Amount: \$3,644,291 Project 1 total costs

Title: INTERCEPT: Integrated Research Center for Human Pain Tissues
 Agency: NIH/NINDS U19NS130607
 Role: Co Principal Investigator (Data Core: Jin/Zhao)
 Duration: 12/01/2022–11/30/2027
 Amount: \$694,321 Data Core total costs

Title: Genomic analysis of the Multiplex, Autozygous Populations in Cerebral Palsy (MAP CP) cohort: a focused approach to a complex disease
 Agency: NIH/NINDS R01NS127108
 Role: Co-Investigator
 Duration: 02/01/2023–01/31/2028
 Amount: \$421,321 total costs

Title: Human Genetics and Molecular Mechanisms of Congenital Hydrocephalus
 Agency: NIH/NINDS 1R01NS1111029
 Role: Co Principal Investigator (Kahle/Deniz/Jin)
 Duration: 04/01/2020 – 01/31/2025
 Amount: \$199,706 total sub costs

Title: Human Genetics and Molecular Mechanisms of Vein of Galen Malformation
 Agency: NIH/NINDS 1R01NS117609
 Role: Co-Investigator (Subaward to Yale University)
 Duration: 07/01/2020 – 06/30/2024
 Amount: \$172,000 total sub costs

Title: Genetic Risk Factors for Severe Scoliosis
 Agency: NIH/NIAMS 2R01AR067715
 Role: Co-Investigator
 Duration: 07/01/2020 – 06/30/2024
 Amount: \$3,248,850 total costs (Salary Support only)

Title: Genomic Insights into the Neurobiology of Cerebral Palsy
 Agency: NIH/NINDS 5R01NS106298
 Role: Co-Investigator
 Duration: 04/01/2019 – 12/31/2023
 Amount: \$19,770 total sub costs

Title: Integrative Genomic Analysis of Congenital Heart Disease
 Agency: NIH/NHLBI 4R00HL143036

Role: Principal Investigator
 Duration: 04/01/2020 – 03/31/2023
 Amount: \$730,167 total costs

- **Non-Governmental**

Title: Discovery of novel genetic variations in cerebral palsy by whole genome sequencing

Agency: Cerebral Palsy Alliance Research Foundation

Role: Principal Investigator

Duration: 06/01/2022 – 05/31/2027

Amount: \$225,000

Title: A Genome-Wide Assessment of Noncoding Risk Variants in Congenital Hydrocephalus

Agency: Hydrocephalus Association

Role: Principal Investigator

Duration: 12/31/2021 – 12/30/2022

Amount: \$50,000

Title: Human Genetics and Molecular Mechanisms of Cerebral Palsy

Agency: Children's Discovery Institute - St. Louis Children's Hospital

Role: Principal Investigator

Duration: 10/01/2021 – 09/30/2026

Amount: \$300,000

Title: Long-Read Genome Sequencing and Integrative Genomic Analysis for Cerebral Palsy

Agency: CTRFP - Washington University Institute of Clinical and Translational Sciences

Role: Principal Investigator

Duration: 03/01/2021 – 02/28/2022

Amount: \$50,000

Title: Functional characterization of the Diaph1 gene using the zebrafish knock model

Agency: Children's Discovery Institute - St. Louis Children's Hospital

Role: Principal Investigator

Duration: 02/05/2021 – 06/30/2023 (No cost extension)

Amount: \$10,000

- **Pending**

Title: Molecular and cellular characterization of congenital hydrocephalus

Agency: NIH/NINDS 1R01NS131610A

Role: Principal Investigator

Duration: 04/01/2024 – 03/30/2029

Percentile: 9%

Undergraduate Mentoring:

Trainee	Period	Project Title	Support	Current Position
Joshipura, Kareena	6/2021 – 8/2021	Human genetics of cerebral palsy	Mount Holyoke College's Lynk Fellowship	Software Engineer at Capgemini
Wrubel, Max	11/2021 – 7/2022	Human genetics of cerebral palsy	Post-Baccalaureate Extensive Study Program	Bioinformatician at Mount Sinai
Marcial-Rodriguez, Athziri	6/2022 – 8/2022	Human genetics of congenital hydrocephalus	MGI OGR Summer Undergraduate Scholars Program	Kornfeld Post-Bac Scholar at WUSTL
Shelton, Cabria	6/2022 – 8/2022	Human genetics of patent ductus arteriosus	MGI OGR Summer Undergraduate Scholars Program	Neuroprep Scholar at WUSTL
Ruttenberg, Andrew	8/2022 – 8/2024	Role of structural variation in rare pediatric movement disorders		Bioinformatics Research Analyst at WUSTL
Iyiyol, Tugce	8/2022 –	Role of transposable elements in rare pediatric movement disorders		BS Student WUSTL
Yu, Brian	1/2024 –	Human genetics of idiopathic peripheral neuropathy	WashU BioSURF	BS Student U of Chicago
Ma, Aria	6/2024 – 8/2024	Human genetics of Alzheimer's disease	MGI OGR Summer Undergraduate Scholars Program	Senior at Tufts University

Graduate Mentoring:

Trainee	Period	Project Title	Support	Current Position
Zhao, Shujuan (joint with Kris Kahle at MGH)	9/2020 –	Human genetics of Vein of Galen Malformation	R01NS117609 + R00HL143036 + Markey Pathway	PhD Candidate WUSTL

Kong, Nahyun	4/2022 –	Human genetics of rare movement disorders	Start-up funds + SMaHT UM1	PhD Candidate WUSTL
Choi, Julie (joint with Jeffrey Milbrandt)	4/2022 –	Human genetics of peripheral neuropathy	WashU T32GATP	PhD Candidate WUSTL
Dong, Wendy (joint with Jeffrey Milbrandt)	3/2023 –	Functional genetics of peripheral neuropathy	WashU T32 GATP	MSTP Candidate WUSTL
Tang, Zitian	5/2023 –	Impact of repeat expansion in peripheral neuropathy	Start-up funds + SMaHT UM1	PhD Candidate WUSTL
Ulibarri, Jenna	7/2023 –	Proteogenomics in peripheral neuropathy	WashU T32CMB + NIH IMSD (R25GM103757)	PhD Student WUSTL
Purva Patel	4/ 2024 –	Human genetics of late-onset Alzheimer's	Start-up funds	PhD Student WUSTL
Emma Casey	5/2024 –	Human genetics of idiopathic peripheral neuropathy	Start-up funds + NIH IMSD (R25GM103757)	PhD Student WUSTL
Zefan (Vivien) Li	05/2024	Human genetics of idiopathic peripheral neuropathy	Start-up funds	PhD Student WUSTL
Peters, Samuel	5/2020 – 4/2021	Human genetics of primary Moyamoya disease	R00HL143036	Research Specialist at WUSTL
King, Spencer	5/2020 – 5/2021	Human genetics of cerebral palsy	R00HL143036	Data Scientist Geneoscopy
Yu, Xiaobing	2/2021 – 11/2021	Single-cell RNA-sequencing analysis for rare neurological disorders	R00HL143036	PhD Student WUSTL
Shaffiey, Shohaib	2/2021 – 5/2021	Whole genome sequencing analysis for rare neurological disorders	R00HL143036	MS Student WUSTL

Postgraduate Mentoring:

Trainee	Period	Project Title	Support	Current Position
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Wang, Yung-Chun	6/2021 –	Human genetics of cerebral palsy	R00HL143036 + R01NS127108	Instructor at WUSTL
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Fellowships/Scholarships/Grants to Postdocs/Students:

Predoctoral semifinalist for the 2024 Trainee Research Excellence Awards
 Agency: American Society of Human Genetics
 Postdoc(s)/Student(s): Nahyun Kong
 Role: Sponsor
 Duration: 08/2024
 Amount: Complimentary registration to the 2024 ASHG Annual Meeting and \$750

Precision Medicine Pathway
 Agency: Washington University School of Medicine
 Postdoc(s)/Student(s): Zefan (Vivien) Li
 Role: Sponsor
 Duration: 08/2024 – 08/2026
 Amount: \$0

Precision Medicine Pathway
 Agency: Washington University School of Medicine
 Postdoc(s)/Student(s): Purva Patel
 Role: Sponsor
 Duration: 08/2024 – 08/2026
 Amount: \$0

Precision Medicine Pathway
 Agency: Washington University School of Medicine
 Postdoc(s)/Student(s): Emma Casey
 Role: Sponsor
 Duration: 08/2024 – 08/2026
 Amount: \$0

Maximizing Student Development (IMSD) Program
 Agency: Washington University School of Medicine
 Postdoc(s)/Student(s): Emma Casey
 Role: Sponsor
 Duration: 09/2023 – 09/2024

Amount: \$27,144

Scholarships to attend Jackson Laboratory's Human and Mammalian Genetics and Genomics: The McKusick Short Course

Agency: Jackson Laboratory
 Postdoc(s)/Student(s): Zefan (Vivien) Li
 Role: Sponsor
 Duration: 08/2024
 Amount: \$500

Scholarships to attend Jackson Laboratory's Human and Mammalian Genetics and Genomics: The McKusick Short Course
 Agency: Jackson Laboratory
 Postdoc(s)/Student(s): Purva Patel
 Role: Sponsor
 Duration: 08/2024
 Amount: \$500

Scholarships to attend Jackson Laboratory's Human and Mammalian Genetics and Genomics: The McKusick Short Course
 Agency: Jackson Laboratory
 Postdoc(s)/Student(s): Emma Casey
 Role: Sponsor
 Duration: 08/2024
 Amount: \$1,750

Annual Hope Center Retreat Poster Award
 Agency: Arts & Sciences at Washington University in St. Louis
 Postdoc(s)/Student(s): Julie Choi
 Role: Co-sponsor
 Duration: 4/2024
 Amount: \$1,000 (one-time allowance)

Washington University Summer Undergraduate Research Fellowship Program
 Agency: Arts & Sciences at Washington University in St. Louis
 Postdoc(s)/Student(s): Brian Yu
 Role: Sponsor
 Duration: 5/2024 – 08/2024
 Amount: \$2,500

Maximizing Student Development (IMSD) Program
 Agency: Washington University School of Medicine
 Postdoc(s)/Student(s): Jenna Ulibarri
 Role: Sponsor
 Duration: 09/2022 – 09/2023
 Amount: \$27,144

Washington University's T32 Cellular & Molecular Biology Training Program
 Agency: Washington University School of Medicine

Postdoc(s)/Student(s): Jenna Ulibarri

Role: Sponsor

Duration: 11/2023 – 08/2024

Amount: \$27,144/year

Scholarships to attend Cold Spring Harbor Laboratory's Scientific Writing Retreat

Agency: Cold Spring Harbor Laboratory

Postdoc(s)/Student(s): Yung-Chun Wang

Role: Sponsor

Duration: 10/2023

Amount: \$500

Washington University's T32 Genome Analysis Training Program

Agency: Washington University School of Medicine

Postdoc(s)/Student(s): Wendy Dong

Role: Co-sponsor

Duration: 09/2023 – 08/2024

Amount: \$34,500/year

Precision Medicine Pathway

Agency: Washington University School of Medicine

Postdoc(s)/Student(s): Zitian Tang

Role: Sponsor

Duration: 08/2023 – 08/2025

Amount: \$0

Scholarships to attend Jackson Laboratory's Human and Mammalian Genetics and Genomics: The McKusick Short Course

Agency: Jackson Laboratory

Postdoc(s)/Student(s): Zitian Tang

Role: Sponsor

Duration: 07/2023

Amount: \$500

Study Abroad Scholarships

Agency: Mogam Science Scholarship Foundation

Postdoc(s)/Student(s): Nahyun Kong

Role: Sponsor

Duration: 1/2023

Amount: \$10,000 (one-time allowance)

Washington University's T32 Genome Analysis Training Program

Agency: Washington University School of Medicine

Postdoc(s)/Student(s): Julie Choi

Role: Co-sponsor

Duration: 10/2022 – 09/2024

Amount: \$34,500/year

Lucille P. Markey Special Emphasis Pathway in Human Pathobiology Fellowship

Agency: Washington University School of Medicine

Postdoc(s)/Student(s): Shujuan Zhao

Role: Sponsor

Duration: 08/2022 – 08/2024

Amount: \$4,000 (one-time stipend supplement)

Precision Medicine Pathway

Agency: Washington University School of Medicine

Postdoc(s)/Student(s): Julie Choi

Role: Co-sponsor

Duration: 08/2022 – 08/2024

Amount: \$0

Precision Medicine Pathway

Agency: Washington University School of Medicine

Postdoc(s)/Student(s): Nahyun Kong

Role: Sponsor

Duration: 08/2022 – 08/2024

Amount: \$0

Scholarships to attend Jackson Laboratory's Human and Mammalian Genetics and Genomics: The McKusick Short Course

Agency: Jackson Laboratory

Postdoc(s)/Student(s): Shujuan Zhao

Role: Sponsor

Duration: 07/2022

Amount: \$900

Scholarships to attend Jackson Laboratory's Human and Mammalian Genetics and Genomics: The McKusick Short Course

Agency: Jackson Laboratory

Postdoc(s)/Student(s): Max Wrubel

Role: Sponsor

Duration: 07/2022

Amount: \$1,800

Center of Regenerative Medicine Postdoctoral Fellowship

Title: Human genomics and molecular mechanisms of Sporadic Moyamoya disease

Agency: Washington University Center of Regenerative Medicine

Postdoc(s)/Student(s): Yung-Chun (David) Wang

Role: Sponsor

Duration: 07/01/2021

Amount: \$10,000 (signing bonus)

NIH TL1 Predoctoral Clinical Research Training Fellowship (Declined)

Title: Integrative Genomic Analysis of Cerebral Palsy and Rare Pediatric Movement Disorders

Agency: Washington University Clinical Research Training Center

Postdoc(s)/Student(s): Amar Sheth

Role: Sponsor

Duration: 06/01/2021 – 05/31/2022

Amount: \$2,110/month

Thesis Committee Advisees:

Ciyang Wang	DBBS Molecular Genetics and Genomics
Chengran Yang	DBBS Human and Statistical Genetics
Tong Wu	Biomedical Engineering
Caitlin Dingwall	WashU MSTP
Kuangying Yang	DBBS Human and Statistical Genetics
Gervette Penny	DBBS Molecular Genetics and Genomics

Qualifying Exam Committee:

Ji-Sun Kwon	DBBS Computational and Systems Biology
Evelyn Craigen	DBBS Molecular Genetics and Genomics (Chair)
Dan Western	DBBS Human and Statistical Genetics
Kuangying Yang	DBBS Human and Statistical Genetics
Grace Cooper	DBBS Human and Statistical Genetics (Chair)
Paul Lee	WashU MSTP (Chair)
Juanru Guo	DBBS Computational and Systems Biology
Mariam Khanfar	DBBS Human and Statistical Genetics (Chair)
Chia-Jung Lee	DBBS Computational and Systems Biology
Chien-Wei Peng	DBBS Human and Statistical Genetics
Arnold Federico	DBBS Molecular Genetics and Genomics
Joey Nichols	WashU MSTP (Chair)

Patents:

N/A

Teaching Responsibilities:

2021 – 2022	Lecturer, Bio5488: Genomics, Washington University School of Medicine
2021 – 2022	Study Section Co-Leader, Bio5491: Advanced Genetics, Washington University School of Medicine

- 2022 – Lecturer, Bio5487: Genetics & Genomics of Disease, Washington University School of Medicine
- 2022 – Co-director, Bio5488: Genomics, Washington University School of Medicine
- 2023 – Immersion Program Co-Leader, Washington University School of Medicine
- 2023 – Lecturer, Bio5285: Current Topics in Human and Mammalian Genetics, Washington University School of Medicine

Bibliography:

- **Peer Reviewed Manuscripts (* Equal contribution; # Co-corresponding; Lab members in bold)**
1. Caporaso N*, Gu F*, Chatterjee N*, **Jin SC**, Yu K, Yeager M, Chen C, Jacobs K, Wheeler W, Landi MT, Ziegler RG, Hunter DJ, Chanock S, Hankinson S, Kraft P, Bergen AW. Genome-wide and candidate gene association study of cigarette smoking behavior. *PLoS ONE*, 2009;4(2):e4653.
 2. Beaty TH, Murray JC, Marazita ML, Munger RG, Ruczinski I, Hetmanski JB, Liang KY, Wu T, Murray T, Fallin MD, Redett RA, Raymond G, Schwender H, **Jin SC**, Cooper ME, Dunnwald M, Mansilla MA, Leslie E, Bullard S, Lidral AC, Moreno LM, Menezes R, Vieira AR, Petrin A, Wilcox AJ, Lie RT, Jabs EW, Wu-Chou YH, Chen PK, Wang H, Ye X, Huang S, Yeow V, Chong SS, Jee SH, Shi B, Christensen K, Melbye M, Doheny KF, Pugh EW, Ling H, Castilla EE, Czeizel AE, Ma L, Field LL, Brody L, Pangilinan F, Mills JL, Molloy AM, Kirke PN, Scott JM, Arcos-Burgos M, Scott AF. A genome-wide association study of cleft lip with and without cleft palate identifies risk variants near MAFB and ABCA4. *Nature Genetics*, 2010 Jun;42(6):525-9.
 3. Beaty TH, Ruczinski I, Murray JC, Marazita ML, Munger RG, Hetmanski JB, Murray T, Redett RJ, Fallin MD, Liang KY, Wu T, Patel PJ, **Jin SC**, Zhang TX, Schwender H, Wu-Chou YH, Chen PK, Chong SS, Cheah F, Yeow V, Ye X, Wang H, Huang S, Jabs EW, Shi B, Wilcox AJ, Lie RT, Jee SH, Christensen K, Doheny KF, Pugh EW, Ling H, Scott AF. Evidence for gene-environment interaction in a genome wide study of isolated, nonsyndromic cleft palate. *Genetic Epidemiology*, 2011 Sep;35(6):469-78
 4. **Jin SC**, Pastor P, Cooper B, Cervantes S, Benitez BA, Razquin C, Goate AM, Ibero-American Alzheimer's Disease Genetics Group Researchers, Cruchaga C. Poole-DNA sequencing identifies novel causative variants in *PSEN1*, *GRN*, and *MAPT* in a clinical early-onset and familial Alzheimer's disease Ibero-American cohort. *Alzheimer's Research & Therapy*. 2012 Aug 20;4(4):34.
 5. Wang H, Zhang T, Wu T, Hetmanski JB, Ruczinski I, Schwender H, Murray T, Fallin MD, Redett RJ, Raymond GV, **Jin SC**, Wu-Chou YH, Chen PK, Yeow V, Chong SS, Cheah FS, Jee SH, Jabs EW, Liang KY, Scott A, Beaty TH. The FGF&FGFR gene family and risk of cleft lip with or without cleft palate. *The Cleft Palate-Craniofacial Journal*, 2013 Jan;50(1):96-103.

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- **Spotlight**

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