

## CURRICULUM VITAE

LI-SAN WANG

August 28, 2024

## EDUCATION

- 05/2003 Ph.D. in Computer Sciences, University of Texas at Austin  
*Thesis title:* Large-Scale Phylogenetic Analysis  
*Advisor:* Tandy Warnow
- 06/2000 M.S., Computer Sciences, University of Texas at Austin.
- 06/1996 M.S., Electrical Engineering, National Taiwan University.  
*Thesis title:* Design and Implementation of an Adaptive Modeling Unit for  
 Multialphabet Arithmetic Compression  
*Advisor:* Tzi-Dar Chiueh
- 06/1994 B.S., Electrical Engineering, National Taiwan University.

## WORKING EXPERIENCE

## UNIVERSITY OF PENNSYLVANIA

- 12/2022–Present Peter C. Nowell, M.D. Professor, Department of Pathology and Laboratory Medicine
- 07/2019–Present Professor (with Tenure), Department of Pathology and Laboratory Medicine
- 05/2016–Present Founding Co-Director, Penn Neurodegeneration Genomics Center (PNGC)
- 07/2013–06/2019 Associate Professor (with Tenure), Department of Pathology and Laboratory Medicine
- 01/2007–06/2013 Assistant Professor (Tenure Track), Department of Pathology and Laboratory Medicine
- 01/2007–Present Faculty Fellow, Institute on Aging (IOA)
- 01/2007–Present Faculty Member, Institute of Biomedical Informatics (IBI) (formerly Penn Center for  
 Bioinformatics (PCBI))
- 01/2010–2015 Core Faculty Member, Penn Genome Frontiers Institute (PGFI; now discontinued)
- 03/2013–Present Affiliate Faculty Member, Center for Genetics and Complex Traits (CGACT)
- 03/2013–Present Faculty Member, Penn Center for Biomedical Image Computing and Analytics (CBICA)
- 03/2020–Present Faculty Member, Penn Center for Global Genomics and Health Equality (GGHE)

## DEPARTMENT OF BIOLOGY, UNIVERSITY OF PENNSYLVANIA

- 07/2003–12/2006 Postdoctoral Researcher (Mentor: Junhyong Kim)

## DEPARTMENT OF COMPUTER SCIENCES, UNIVERSITY OF TEXAS AT AUSTIN

- 07/2000–05/2003 Research assistant
- 09/1998–05/2000 Teaching assistant

## ARMY, REPUBLIC OF CHINA (TAIWAN)

- 09/1996–06/1998 Second Lieutenant (Infantry)

## DEPARTMENT OF ELECTRICAL ENGINEERING, NATIONAL TAIWAN UNIVERSITY

- 09/1995–06/1996 Research assistant
- 09/1994–06/1995 Teaching assistant, *Electronics* (undergraduate)

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**AWARDS AND HONORS**

- 2022 Penn Faculty Fellow, University of Pennsylvania
- 2016 Senior Member, International Society for Computational Biology (ISCB)
- 2008 Fellow, 16th Annual Summer Training Course in Experimental Aging Research
- 2004 NIH Postdoctoral Training Grant, Bioinformatics, Program Director: Lyle Ungar; 2004-2006
- 2003 NIH Postdoctoral Training Grant, Cancer and Immunopathobiology, Program Director: Mark Greene; 2003-2004
- 2002 Student travel fellowship, 10th International Conference on Intelligent Systems for Molecular Biology (ISMB'02).
- 2001 Student travel fellowship, Graduate School, University of Texas.
- 2001 Student travel fellowship, 33rd Symposium on Theory of Computing (STOC'01).
- 1998 University of Texas at Austin Departmental Scholarship (1998-2000).
- 1998 Award for excellence in mandatory military service, Republic of China (Taiwan) Army.
- 1994 National Taiwan University Departmental Scholarship (1994-1996)
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**GRANT SUPPORT**

(This is a partial list on major grants; as a bioinformatician I contribute to many projects as a co-investigator and my lab is also supported by these other grants. A complete summary is available [here](#).)

**Current:**

- 07/2023–06/2028 Contact PI, *Asian Cohort for Alzheimer's Disease (ACAD)*, NIH/NIA U19-AG079774, \$40,532,690 total for five years (MPI: Helena Chui/Gyungah Jun/Van Park/Li-San Wang).
- 04/2022–03/2027 PI, *The NIA Genetics of Alzheimer's Disease Data Storage Site*, NIH/NIA U24-AG041689, \$23,956,608 total for years 11-15 (PI: Li-San Wang).
- 09/2020–05/2022 Contact MPI *Asian Cohort for Alzheimer's Disease (ACAD)*, NIH/NIA R56-AG013690, \$4,869,158 total. (MPI: Helena Chui/Gyungah Jun/Van Park/Li-San Wang).
- 09/2017–08/2022 Co-Investigator/UPenn Subcontract PI. *Whole genome sequencing in ethnically diverse cohorts for the ADSP Follow-Up Study (FUS)*, NIH/NIA U01-AG057659, \$11,819,206 total. (MPI: Margaret Pericak-Vance/Richard Mayeux/Badri Vardarajan). Role: Budget for Penn: \$2,911,918 total.
- 04/2021–03/2026 MPI, *Genome Center for Alzheimer's Disease (CGAD)*, NIH/NIA U54-AG052427, \$20,026,333 total for the entire project over five years (MPI: Gerard Schellenberg/Li-San Wang).
- 09/2017–07/2022 MPI, *Impact of coding and non-coding variation in progressive supranuclear palsy*, NIH/NINDS UG3-NS104095, \$5,403,697 total for the entire project over five years (MPI: Giovanni Coppola/Gerard Schellenberg/Li-San Wang/Dennis Dickson/Judith Steen).
- 07/2017–06/2022 Co-Investigator, *Integrated target discovery in Alzheimer's disease*, NIH/NIA RF1-AG055477, \$2,945,840 total for the entire project over five years (PI: Christopher Brown)

- 09/2016–08/2020 Co-Investigator, *Pleiotropy GWAS of Alzheimer's Disease and Multiple Neurodegenerative Diseases*, NIH/NIA R01-AG054060, \$411,294 total each year (PI: Adam Naj).
- 09/2016–08/2021 Co-Investigator, *Identifying genes and pathways that modulate Tau Toxicity in FTD*, NIH/NINDS U54-NS100693, \$1,244,334 total each year (PI: Leonard Petrucelli).
- 07/2016–06/2021 Co-Investigator, *Alzheimer's Disease Core Center, NIH/NIA P30-AG010124*, annual amount: \$1,771,275 total cost per year for the entire project (PI: John Trojanowski).
- 06/2016–02/2021 Co-Investigator, *Frontotemporal Dementias: Genotypes and Phenotypes: Project 2: Genetic Modifiers of tauopathies*, NIH/NIA P01-AG017586, annual amount: \$6,600 (budget for Wang lab). (PI: Virginia Lee, Project PI: Gerard Schellenberg)
- 04/2020–03/2025 Co-Investigator, *Alzheimer's Disease Genetics Consortium, NIH/NIA U01-AG032984*, annual amount: \$4,145,973 total cost for the entire project (PI: Gerard Schellenberg).
- 08/2018–07/2023 Co-Investigator, *Molecular Determinants and Therapeutic Consequences of Immune Heterogeneity in Cancer*, NIH/NCI R01-CA217176, annual amount: \$3,564 (budget for Wang lab). (MPI: Robert Vonderheide / Benjamin Stanger)
- 09/2018–08/2023 Co-Investigator/MPI for Subawards to University of Pennsylvania, *The Alzheimer Disease Sequence Analysis Collaborative*, NIH/NIA U01-AG058654, annual amount: \$260,870 (budget for Penn). (MPI: Jonathan Haines/William Bush/Margaret Pericak-Vance/Eden Martin/Lindsay Farrer)
- 09/2018–08/2023 Co-Investigator/MPI for Subawards to University of Pennsylvania, *Therapeutic target discovery in ADSP data via comprehensive whole-genome analysis incorporating ethnic diversity and systems*, NIH/NIA U01-AG058589, annual amount: \$250,000 (budget for Penn). (MPI: Anita Destefano / Eric Boerwinkle / Philip De Jager / Myriam Fornage / Sudha Seshadri / Ellen Wijsman)
- 09/2018–05/2023 Co-Investigator/MPI for Subawards to University of Pennsylvania, *The Stanford Extreme Phenotypes in Alzheimer's Disease (StEP AD) Cohort*, NIH/NIA R01-AG060747, annual amount: \$69,695 (budget for Penn). (PI: Michael Greicius)

#### Completed:

- 04/2017–03/2022 PI, *The NIA Genetics of Alzheimer's Disease Data Storage Site, NIH/NIA U24-AG041689*, \$8,229,087 total for years 6-10 (PI: Li-San Wang).
- 04/2020–03/2022 PI, *The NIA Genetics of Alzheimer's Disease Data Storage Site, NIH/NIA U24-AG041689-9S1*, \$2,422,562 total for years 9-10, administrative supplement (PI: Li-San Wang).
- 04/2016–03/2021 MPI, *Coordinating Center for Genetics and Genomics of Alzheimer's Disease (CGAD)*, NIH/NIA U54-AG052427, \$11,579,543 total for the entire project over five years (MPI: Gerard Schellenberg/Li-San Wang).
- 04/2015–03/2020 Co-Investigator, *Alzheimer's Disease Genetics Consortium, NIH/NIA U01-AG032984*, annual amount: \$4,296,244 total cost for the entire project (PI: Gerard Schellenberg).
- 06/2014–05/2018 Core C Co-Leader, *Consortium for Alzheimers Sequence Analysis (CASA)*, NIH/NIA UF1-AG047133, \$12,638,607 over four years for the entire project (Contact PI: Gerard Schellenberg).
- 09/2013–06/2018 Co-Investigator, *Frontotemporal Dementias: Genotypes and Phenotypes*, NIH/NIA P01-AG017586, annual amount: \$1,791,874 direct cost for the entire project (PI: Virginia Lee).
- 10/2012–09/2017 Co-Investigator, *Parkinson's Disease and Dementia*, NIH/NINDS P50-NS053488, \$1,233,000 direct cost per year for the entire project (PI: John Trojanowski).

- 09/2012–05/2018 Co-Investigator, *Role Of Single Cell mRNA Variation In Systems Associated Electrically Excitable Cells*, NIH Common fund/NIMH U01-MH098953, \$2,311,889 total per year for the entire project (PI: James Eberwine/Junhyong Kim).
- 09/2012–10/2017 PI, *Computational genome-wide RNA profiling using next-generation sequencing*, NIH/NIGMS R01-GM099962, \$1,560,000 total for the entire project (PI: Li-San Wang).
- 09/2013–06/2018 Core B Co-Leader, *Epigenetics of Aging and Age-associated Diseases*, NIH/NIA P01-AG031862 , annual amount: \$1,694,237 direct cost for the entire project (PI: Shelley Berger).
- 04/2012–03/2018 Co-Investigator, *Epigenetic Changes Associated with Neurodegenerative Diseases*, NIH/NINDS R01-NS078283, \$594,745 direct cost per year for the entire project (MPI: Shelley Berger/Brad Johnson/Nancy Bonini). No cost extension.
- 04/2012–03/2017 Co-Investigator, *3/3-Sequencing Autism Spectrum Disorder Extended Pedigrees*, NIH/NIMH R01-MH094382, \$100,000 direct cost per year for the entire project (PI: Gerard-Schellenberg).
- 04/2012–03/2017 PI, *The NIA Genetics of Alzheimer's Disease Data Storage Site*, NIH/NIA U24-AG041689, \$6,402,241 total for the entire project over five years (PI: Li-San Wang).
- 04/2011–03/2016 Co-Investigator, *Targeted Proteomics Of Resilient Cognition In Aging*, NIH/NIA R01-AG039478, annual amount: \$342,941 per year direct cost for the entire project (PI: Steven Arnold).
- 03/2011–02/2016 Co-Investigator, *Frontotemporal Dementias: Genotypes and Phenotypes*, NIH/NIA P01-AG017586, annual amount: \$218,236 direct cost per year for the entire project (PI: Virginia Lee, Project PI: Gerard Schellenberg).
- 04/2009–03/2015 Co-Investigator, *Alzheimer's Disease Genetics Consortium*, NIH/NIA U01-AG032984, total amount: \$18,723,531 total cost for the entire project (PI: Gerard Schellenberg).
- 09/2011–06/2015 Co-Investigator, *Genomic analysis of bipolar disorder in a genetic isolate*, NIH/NIMH R01-MH093415, \$1,016,386 direct cost per year for the entire project (MPI: Maja Bucan/Steven Paul).
- 02/2011–01/2014 PI, *Penn CNDR/Johnson & Johnson Joint Integrative Informatics Research Program*, Johnson & Johnson Pharmaceutical Research and Development, \$1,168,104 for the entire project (PI: Li-San Wang).
- 10/2011–09/2013 Co-Investigator, *Whole-exome sequencing of Progressive supranuclear palsy*, CurePSP, \$250,000 per year for the entire project (PI: Gerard Schellenberg).
- 09/2009–09/2012 Co-PI, *Genome wide associate analysis of Alzheimer's Disease*, NIH/NIA RC2-AG036528, \$3,439,720 direct cost per year for the entire project (PI: Gerard Schellenberg).
- 01/2011–12/2011 Co-Investigator, *Plasma And Cerebrospinal Fluid (CSF) Parkinson's Disease (PD) Biomarkers For Differential Diagnosis, Disease Progression And Predicting Cognitive Impairment (CI)*, Penn/Pfizer Alliance, \$563,008 direct cost per year for the entire project (PI: John Trojanowski).
- 09/2009–09/2012 Co-Investigator, *4/5 - Elucidating the genetic architecture of autism by deep genomic sequencing*, NIH/NIMH 1-R01-MH089004-01, \$507,936 direct cost per year for the entire project (PI: Gerard Schellenberg).
- 01/2007–12/2012 Collaborator, *Specialized Center of Research in Targeted Therapy for Infant Leukemia*, Leukemia and Lymphoma Society, \$1,250,000 direct cost per year for the entire project (PI: Carolyn Felix).

- 07/2010–06/2011 PI, *Transcriptomic changes in neurodegenerative brain using RNA sequencing*, Penn Institute on Aging Pilot Grant, total amount: \$50,000 for the entire project (PI: Li-San Wang).
- 01/2010–12/2010 Co-Investigator, *Plasma and CSF Biomarkers As Diagnostics For Alzheimer's Disease II: Validation, Disease Specificity, and Prediction of Cognitive Decline*, Penn/Pfizer Alliance, \$563,008 for the entire project (PI: Steven Arnold).
- 01/2009–12/2010 Co-PI, *Genome-wide Analysis of the Double-Stranded RNA Component of Eukaryotic Transcriptomes*, Penn Genome Frontiers Institute (PGFI) Pilot Grant, \$120,000 for the entire project (PI: Brian Gregory).
- 01/2008–12/2008 PI, *Novel Bioinformatic Approaches for Modeling Age-Related Gene Expression Progression*, University of Pennsylvania Research Foundation Pilot Grant, \$24,378 for the entire project (PI: Li-San Wang)
- 07/2007–06/2008 PI, *The role of G-quadruplexes in senescence through RecQ-dependent pathways*, University of Pennsylvania Institute on Aging Pilot Grant, \$50,000 for the entire project (PI: Li-San Wang).
- 01/2007–05/2009 Co-Investigator, *The University of Pennsylvania Center of Excellence for Research on Neurodegenerative Diseases*, University of National Tobacco Master Settlement Agreement, \$1,067,837 per year for the entire project (PI: Chris Clark).

## SERVICES AND AFFILIATION

### Service, Administration and Education:

- Vice Chair for Research, Department of Pathology and Laboratory Medicine, University of Pennsylvania Perelman School of Medicine (2021-)
- Interim Director, Division of Diagnostic Innovation, Department of Pathology and Laboratory Medicine, University of Pennsylvania Perelman School of Medicine (2021-)
- Faculty Member, Graduate Group in Genomics and Computational Biology (GCB), University of Pennsylvania School of Medicine.
  - Chair (2014-2018)
  - Member (2007-2014, 2018-2020), Vice chair (2011), and Chair (2012-2014), Admissions Committee
  - Member (2007-2018), Curriculum Committee
  - Member (2013-2018), Executive Committee
- Faculty Member, Graduate Group in Epidemiology and Graduate Group in Cellular And Molecular Biology (CAMB) - Genetics and Epigenetics track, University of Pennsylvania School of Medicine.
- Member, Committee on Appointments and Promotions (2020-), Department of Pathology and Laboratory Medicine, University of Pennsylvania Perelman School of Medicine.
- Member, Biobanking committee (2011), University of Pennsylvania Perelman School of Medicine.
- Member, IT Governance committee (2011-2017), IT Council (2017-Present, Co-Chair 2022-), University of Pennsylvania Perelman School of Medicine.
- Member, Space Committee (2022-), University of Pennsylvania Perelman School of Medicine.
- Member, Behavioral Neuroscience Initiative Search Committee (2012-2016), Center for Personalized Diagnostics Search Committee (2012-2016), University of Pennsylvania Perelman School of Medicine.

- Member, Division for Genomic Diagnostics Faculty Search Committee (2014-2016), Children’s Hospital of Philadelphia (CHOP) and University of Pennsylvania Perelman School of Medicine.
- Member, Personalized Diagnostics Working Group for the Residency Program (2012), Department of Pathology and Laboratory Medicine.
- Member, Advisory Board for the Institute of Biomedical Informatics Bioinformatics Core.
- Member, Internal Advisory Board (2012-), Pilot Award Committee (2014-), Institute on Aging, University of Pennsylvania Perelman School of Medicine.
- Organizer, Penn Bioinformatics Forum (PBF) (2007-2012).
- Member, Department of Biostatistics, Epidemiology and Informatics Chair Search Committee (2020), University of Pennsylvania Perelman School of Medicine.
- Chair, Graduate Group of Biostatistics and Epidemiology review committee (2020-2021), University of Pennsylvania.
- Member, Department of Pathology and Laboratory Medicine committee on appointments and promotions (DCOAP) (2020-2023), University of Pennsylvania Perelman School of Medicine.
- Member, Association for Computing Machinery (ACM), American Society for Human Genetics (ASHG), Institute of Electrical and Electronic Engineers (IEEE), Society for Neuroscience (SfN), American Association for the Advancement of Science (AAAS), and International Society for Computational Biology (ISCB).

#### **Mentoring (University of Pennsylvania):**

- Ph.D. advisor for Paul Ryvkin (Genomics and Computational Biology, 2009-2013), “Methods and applications of the sequencing of short non-coding RNAs.”
- Ph.D. advisor for Fan Li (Genomics and Computational Biology, 2011-2013; co-advising with Brian Gregory), “Genome-Wide Analysis of RNA Secondary Structure in Eukaryotes,” winner of 2014 Saul Winegrad Best Dissertation Award.
- Ph.D. advisor for Yih-Chii Hwang (Genomics and Computational Biology, 2011-2015; co-advising with Brian Gregory), “Identification of long-range regulatory elements in the human genome”; winner of 2014 American Society of Human Genetics Annual Charles Epstein Jr. Trainee Award and University of Pennsylvania President Gutmann’s Leadership Award.
- Ph.D. advisor for Alex Amlie-Wolf (Genomics and Computational Biology, 2015-2019), “Development and application of computational methods for inferring the molecular mechanisms of noncoding genetic variants.”
- Ph.D. advisor for Kaylyn Clark (Genomics and Computational Biology, 2019-2024), winner of the first annual GCB Student Leadership and Engagement Award.
- Graduate mentor for Barry Slaff (Computer and Information Sciences, 2015-2017).
- Master thesis advisor for Mi Ryung Han (2009) and Shu-Kai Chang (2009).
- Postdoctoral mentor for Kajia Cao (2008-2010), Fanny Leung (2009-2014), Chiao-Feng Lin (2010-2012), Alexey Nefedov (2011-2012), Tianyan Hu (2013-2015), Pavel Kuksa (2014-2018), Weixin Wang (2014-2017), Elisabeth Mlynarski (2016-), Abha Belorkar (2018-2019), Chien-Yueh Lee (2019-2021), Wei Fu (2020-), Chia-Lun Liu (2020-), Chixiang Chen (2020-), Wei Fu (2020-2023), Chia-Lun Liu (2020-2022), Matei Ionita (2021-2022), Pei-Chuan Ho (2021-), Hui Wang (2021-).

- Dissertation Committee for Kathleen Sprouffske (2008-2011), Jesse Platt (Prelim Committee, 2010-2011), Aleah Caulin (2010-2014), Jun Chen (2011-2013), Bilwaj Gaonkar (2011-2015), Hannah Hutton (Chair, 2013-2014), Nathan Berkowitz (2013-), Sarah Middleton (Chair, 2013-2017), Ying Chen (2014-2017), Amber Weiner (Chair, 2017-2021), Feng Xu (Hong Kong University, external member, 2015), Lucy Shan (2016-2021), Blair Zhang (Chair, 2019-2020), Chi-Yun Wu (Chair, 2019-2022), Shufei Song (2019), Elizabeth Burton (Chair, 2020-).
- Supervising graduate rotations (Ph.D. and Masters students not included): Sameer Soi, Aleah Caulin, Serena Dollive, Chris Venter, Varun Aggarwala, Brian Cole, Jacquelyn Meisel, Ying Chen, Salika Dunatunga, Katie Siewert, Alex Amlie-Wolf, Maksim Shestov, Kaylyn Clark, Chi-Yun Wu, Jenea Adams, Mitch Conery.
- Supervising undergraduate research: Steve Hershman (2008), Xin Chen (2009), Avinash Maganty (2011), Mitchell Tang (2012-)(University Scholar), Alex Amlie-Wolf (2011), Andrew Hong (2013), Ainash Ravi (2014), Lauren Kleidermacher (2019-2021), Le Hoang (2019-2020).

**Service, Research:**

- PI, NIA Genetics of Alzheimer's Disease Data Storage Site (NIAGADS), 2012-Present.
- Member, Alzheimer's Disease Genetics Consortium (ADGC), 2009-Present.
  - Co-PI, Database and IT.
  - Member, Executive Committee.
  - Co-Chair, ADGC Pathway Analysis Working Group.
- Member, International Genome Alzheimer Project (IGAP), 2011-Present.
  - Chair, IGAP Imputation working group.
  - Co-Chair, IGAP Pathway analysis working group.
  - Member, IGAP SNP selection and custom chip design working group.
  - Member, IGAP exome chip analysis working group.
- Member, Alzheimer's Disease Sequencing Project (ADSP), 2012-Present.
  - Member, ADSP Executive Committee.
  - Chair, ADSP Data Deposition Working Group.
  - Director, ADSP Data Coordinating Center (NIAGADS).
  - Member, ADSP Sample Selection and Management Working Group, Replication Sample Working Group, Analysis Working Group, Structural Variant Working Group.
- NIA Genetic and Biomarker Disclosure Working Group, 2018-Present.
  - Chair, Training Subcommittee, 2018-Present.
- Member, National Academies Ad Hoc Committee for Research Priorities for Preventing and Treating Alzheimer's Disease and Related Dementias, 2023-2024.
- Organization team for the Emerging Information Technology Conference (EITC): Publications/Proceedings (2002), Coordinator (2003), Program Committee/Co-chair of Bioinformatics (2004), Coordinator (2006), Co-chair of Organizational Committee and Co-chair Bioinformatics/Systems Biology Track, (2007), Vice-Chair of Advisory and Management Committee, Co-chair, Workshop on Bioinformatics, Biotechnology, Medicine, and Public Health (August 6-7, 2009 at MIT).
- Co-Chair, EITC-Bio 2008 Workshop (June 7, 2008 at Princeton University).
- Vice Chair, Track 2 (Systems Biology), BIBM 2009 (November 1-4, Washington DC).

- Project manager and Co-Chair for Workshop 1 (In Silico Research and Biomedical Informatics), EITC-Bio 2012 (Princeton, NJ, October 27-28).
- Program Committee Co-Chair for International Conference on Computational Advances in Bio and Medical Sciences (ICCABS 2016).
- Program Committee for RECOMB Satellite Workshop on Comparative Genomics (2004), ACM Conference on Bioinformatics, Computational Biology and Biomedicine (ACM-BCB 2011, 2012), Asia Pacific Bioinformatics Conference (APBC 2016), Workshop on Algorithms in Bioinformatics (WABI 2007, 2009, 2012, 2019), IEEE International Conference on Bioinformatics and BioEngineering (BIBE 2007), International Conference on Computational Advances in Bio and Medical Sciences (ICCABS 2011, 2012, 2013, 2014, 2015, 2017, 2018), International Symposium on Bioinformatics Research and Applications (ISBRA 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019) IEEE International conference on Bioinformatics and Biomedicine (BIBM 2007, 2008, 2009, 2011, 2012, 2013, 2014, 2015), International Conference on Bioinformatics and Computational Biology (BICOB 2008, 2009, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018), Great Lakes Bioinformatics Conference (GLBIO 2017).
- Advisory Board Member for Framingham Heart Study Brain Aging Program (FHS-BAP; U19AG068753; Lindsay Farrer, Contact PI) (2022-), Adult Changes in Thought Study (ACT; U19AGG066567; Eric Larson, Contact PI) (2022-).
- Grant Proposal Reviewer for *Alzheimer's Association, American Mathematical Association, Hong Kong Research Grants Council, US-Israel Binational Science Foundation, Leukemia and Lymphoma Society, National Security Agency, Center for Translational and Basic Research (CTBR) at CUNY Hunter College, and Wellcome Trust*;
- Ad hoc reviewer, NIH/NIGMS Human Genetic Cell Repository Program (2009).
- NIH Study section member, ZRG1 GGG-A RFA RM13-014: Defining A Comprehensive Reference Profile of Circulating Human Extracellular RNA (2014).
- NIH Study section member, ZRG1 BST-X 40 Biomedical Technology Research Center (2013, 2014).
- NIH Study section ad hoc member, Biodata Management and Analysis (BDMA) Study Section (February/June 2015, February 2016, February 2019).
- NIH ad hoc reviewer, Cancer Immunopathology and Immunotherapy (CII) Study Section (October 2015).
- NIH Study section member, ZRG1-BST-N50 Big Data to Knowledge (BD2K) Advancing Biomedical Science Using Crowdsourcing and Interactive Digital Media (October 2015).
- NIH Study section member, ZRG1 BST-U(50) Metabolomics Data Analysis (R03) (June 2016).
- NIH Study section member, ZRG1 BST-U(50) BD2K Mentored Career Development (K01/K22) (October 2016).
- NIH Study section member, ZRG1 BCMB-P(40) (P41) (November 2016).
- NIH Study section member, ZRG1 BST-H(50) (U01) CSR Special Emphasis Panel (February 2017).
- NIH Study section member, ZRG1 BCMB-P(02) Member Conflict: Biological Chemistry and Macromolecular Biophysics (March 2017).
- NIH Study section member, ZRG1 PSE-P(55) Epidemiology and Cohort Studies for Alzheimer's Disease, Related Dementias, and Cognitive Resilience (June 2017).
- NIH Study section member, ZRG1 BCMB-P(50) Opioids and HIV at the Single Cell Level (March 2018).



- NIH Study section member, ZRG1 BST-X(50) Cutting Edge Informatics Tools for Illuminating the Druggable Genome (September 2018).
- NIH Study section member, ZRG1 F08-M(20) Fellowships: Genes, Genomes, and Genetics (November 2018).
- NIH Study section member, ZLM1 YW-R (01) NLM Special Emphasis Panel (May 2019, October 2019).
- NIH Study section member, ZDA1 HXO-H (12) Leveraging Big Data Science to Elucidate the Neural Mechanisms of Addiction and Substance Use Disorder (February 2020).
- NIH Study section member, ZLM1 ZRG1 BCMB-P (50/52) Opioids and HIV at the Single Cell Level (March 2020).
- NIH Study section member, ZLM1 ZRG1 PSE-C (02) Members Conflict Study Section (July 2020).
- NIH Study section member, ZRG1 F08-M (20) F08 Fellowship Section (June 2021).
- NIH Study section member, ZNS1 SRB-S (09) Leveraging Existing ADRD Data Resources R01 (February 2022).
- NIH Study section member, ZDA1 SXC-G (J1): Single Cell Opioid Responses in the Context of HIV (SCORCH) Program Expansion: CNS Data Generation for Chronic Opioid, Methamphetamine, Cocaine and/or Cannabinoid Exposures (November 2022).
- NIH Study section member, ZHD1 DSR-A 55 1:NICHD Resource Program Grants in Bioinformatics (March 2023).
- Reviewer for the National Academy of Medicine Catalyst Award - Healthy Longevity (April 2023, April 2024).
- NIH Study section member, ZRG1 F08-L (20): Fellowships: Genes, Genomes and Genetics (June 2023).
- NIH Study section member, ZRG1 BBBT-T (55): Data Repository and Knowledgebase Special Emphasis Panel (June 2024).
- Reviewer for the Association for Frontotemporal Degeneration Pilot Grant program (November 2017, March 2019).
- Reviewer for the America Heart Association Uncovering New Patterns Grant and Fellowship (March 2018).
- Reviewer for Sao Paolo Research Foundation, Brazil (July 2018).
- Reviewer for Italy Department for Higher Education and Research (January 2019).
- Reviewer for UK Medical Research Council (July 2018).
- NSF Panelist (2012-2013,2015).
- Editorial Board for *International Journal on Data Mining and Bioinformatics (IJDMB)* (2009-2016); Editorial Board for *Scientific Reports* (2024-); Associate Editor for *Journal of Alzheimer's Disease* (2013); Associate Editor for *Alzheimers and Dementia: Translational Research and Clinical Interventions* (2022-).

- Referee for journals including *Aging Cell*, *Alzheimer Disease and Associated Disorders*, *Alzheimer's and Dementia*, *Alzheimer's Research and Therapy*, *American Journal of Human Genetics*, *Annals of Applied Statistics*, *Annals of Human Genetics*, *Asia Pacific Family Medicine*, *Briefings in Bioinformatics*, *Bioinformatics*, *BMC Bioinformatics/Evolutionary Biology/Genomics/Systems Biology*, *Computational Statistics and Data Analysis*, *Discrete Applied Mathematics*, *Gene*, *Genome Research*, *Human Genetics*, *Human Molecular Genetics*, *IEEE Transaction for Computational Biology and Bioinformatics*, *International Journal of Alzheimer's Disease*, *International Journal of Computer Mathematics*, *In Silico Biology*, *Journal of Computational Biology*, *Journal for Computational Optimization*, *Mathematical Biology*, *Mechanism of Aging and Development*, *Methods*, *Molecular Phylogenetics and Evolution*, *Molecular Psychiatry*, *Nature Communications*, *Nature Review Neuroscience*, *Neuroimage*, *Nucleic Acids Research*, *Pattern Recognition*, *PLoS ONE*, *PLoS Computational Biology*, *PLoS Medicine*, *RNA*, *Scientific Reports*, *Systematic Biology*, *Computational Statistics and Data Analysis*.

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## PUBLICATIONS

(\*: Corresponding/Co-Corresponding author)

### Papers in Peer-Reviewed Journals:

1. Peavy GM, V $\text{\u00f6}$  N, Revta C, Lu AT, Lupo JL, Nam P, Nguyen KH, Wang LS, Feldman HH. "Asian Cohort for Alzheimer Disease (ACAD) Pilot Study: Vietnamese Americans." *Alzheimer Dis Assoc Disord*. 2024 Jul-Sep 01;38(3):277-284. doi: 10.1097/WAD.0000000000000631.
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145. Li-San Wang and Tandy Warnow, "Reconstructing Chromosomal Evolution," *SIAM Journal on Computing*, 36: 99-131, 2006.

146. Li-San Wang, Tandy Warnow, Bernard M.E. Moret, Robert K. Jansen, and Linda A. Raubeson, "Distance-based Genome Rearrangement Phylogeny," *Journal of Molecular Evolution*, 63(4):473-83, 2006.
147. Fan Ge, Li-San Wang, and Junhyong Kim, "Genome-scale estimates of horizontal gene transfer rates using the COG database," *PLoS Biology*, 3(10):e316, 2005
148. Sridhar Hannenhalli and Li-San Wang, "Enhanced position weight matrices using mixture models," *Bioinformatics: Proceedings of The Eleventh International Conference on Intelligent Systems and Molecular Biology (ISMB'05)*, 21(Supp.1):i204-i212, 2005.
149. Matthew Spencer, Barbara Bordalejo, Li-San Wang, Adrian C. Barbrook, Linne R. Mooney, Peter Robinson, Tandy Warnow, and Christopher J. Howe, "Gene Order Analysis Reveals the History of *The Canterbury Tales* Manuscripts," 37(1):97-109, *Computers and the Humanities*, Feb. 2003.
150. Cara Stockham, Li-San Wang, and Tandy Warnow, "Postprocessing of Phylogenetic Analysis Using Clustering," *Bioinformatics: Proceedings of the Tenth International Conference on Intelligent Systems for Molecular Biology (ISMB'02)*, 18(Supp.1):285-293, 2002.
151. Bernard M.E. Moret, Jijun Tang, Li-San Wang, and Tandy Warnow, "Steps Toward Accurate Reconstructions of Phylogenies from Gene-Order Data," *Journal of Computer and System Sciences: Special Issue of Computational Biology*, 65(3):508-525, 2002 (invited article).
152. Bernard M.E. Moret, Li-San Wang, and Tandy Warnow, "New Software for Computational Phylogenetics," *IEEE Computer: Special Issue on Bioinformatics*, 35(7):55-64, July 2002.
153. Bernard M.E. Moret, Li-San Wang, Tandy Warnow, and Stacia Wyman, "New Approaches for Reconstructing Phylogenies Based on Gene Order," in *Bioinformatics: Proceedings of the Ninth International Conference on Intelligent Systems for Molecular Biology (ISMB'01)*, 17(Supp.1):165-173, 2001 (this paper was voted as one of the best five papers of the conference).

#### Papers in Conference Proceedings:

1. Li-San Wang, Shane T. Jensen, and Sridhar Hannenhalli, "An Interaction-dependent model for transcription factor binding," *LNCS: Second Annual RECOMB Satellite Workshop on Regulatory Genomics*, Volume 4023, pp. 225-234, 2006.
2. Angelov Stanislav, Boulos Harb, Sampath Kannan, and Li-San Wang, "Weighted Isotonic Regression under  $L_1$  Norm," in *Proceedings of the Seventeenth Annual ACM-SIAM Symposium on Discrete Algorithms (SODA'06)*, pp. 783-791, 2006.
3. Jijun Tang and Li-San Wang, "Improving Genome Rearrangement Phylogeny Using Sequence-Style Parsimony," in *Proceedings of the IEEE Fifth Symposium on Bioinformatics and Bioengineering (BIBE'05)*, pages 137-144.
4. Luay Nakhleh, Derek Ruths, and Li-San Wang, "RIATA-HGT: A Fast and Accurate Heuristic for Reconstructing Horizontal Gene Transfer," in *Lecture Notes of Computer Science No. 3595: The Eleventh International Computing and Combinatorics Conference (COCOON'05)*, pages 84-93.
5. Luay Nakhleh and Li-San Wang, "Phylogenetic Networks, Trees, and Clusters," in *Lecture Notes in Computer Science No. 3515: 2005 International Workshop on Bioinformatics Research and Applications (IWBRA'05)*, pages 919-926.
6. Stanislav Angelov, Boulos Harb, Sampath Kannan, Sanjeev Khanna, Junhyong Kim, and Li-San Wang, "Genome Identification and Classification by Short Oligo Arrays," in *Lecture Notes for Computer Sciences No. 3240: Proceedings for the Fourth Workshop on Algorithms in Bioinformatics (WABI'04)*, pages 400-411, 2004.

7. Li-San Wang, “Genome Rearrangement Phylogeny Using Weighbor,” in *Lecture Notes for Computer Sciences No. 2452: Proceedings for the Second Workshop on Algorithms in Bioinformatics (WABI’02)*, pages 112–125, Springer-Verlag, 2002.
8. Li-San Wang, Robert K. Jansen, Bernard M.E. Moret, Linda A. Raubeson, and Tandy Warnow, “Fast Phylogenetic Methods for Genome Rearrangement Evolution: An Empirical Study,” in *Proceedings of the Fifth Pacific Symposium of Biocomputing (PSB’02)*, pages 524–535, 2002.
9. Li-San Wang, “Exact-IEBP: A New Technique for Estimating Evolutionary Distances Between Whole Genomes,” in *Lecture Notes for Computer Sciences No. 2149: Proceedings for the First Workshop on Algorithms in Bioinformatics (WABI’01)*, pages 175–188, Springer-Verlag, 2001.
10. Li-San Wang and Tandy Warnow. “Estimating True Evolutionary Distances Between Genomes.” in *Proceedings of the Thirty-Third Annual ACM Symposium on the Theory of Computing (STOC’01)*, pages 637–646, ACM Press, 2001.
11. Mary E. Cosner, Robert K. Jansen, Bernard M.E. Moret, Linda A. Raubeson, Li-San Wang, Tandy Warnow, and Stacia Wyman, “A New Fast Heuristic for Computing the Breakpoint Phylogeny and Experimental Phylogenetic Analyses of Real and Synthetic Data,” In *Proceedings of the Eighth International Conference on Intelligent Systems for Molecular Biology (ISMB’00)*, pages 104–115, 2000.

#### Book Chapters:

1. Pavel P. Kuksa, Yuk Yee Leung, Lee E. Vandivier, Zachary Anderson, Brian D. Gregory, and Li-San Wang, “In Silico Identification of RNA Modifications from High-Throughput Sequencing Data Using HAMR,” In Alexandra Lusser ed., *RNA Methylation*, Springer, 2017, 211-29. (Corresponding author)
2. Paul Ryvkin and Li-San Wang, “Phylogenetic Trees from Sequences,” In Heath, Ramakrishnan, eds., *The Problem Solving Handbook for Computational Biology and Bioinformatics*, Springer, 2010, 101-124. (Corresponding author)
3. Paul Ryvkin, Steve Hershman, Li-San Wang, and F. Brad Johnson, “Computational Approaches to Detection and Analysis of Sequences with G-quadruplex Forming Potential,” In Baumann ed., *Methods in Molecular Biology: G-Quadruplex DNA Methods and Protocols*, 608:39-50, Humana Press, 2010. (Co-corresponding author)
4. Lauren M.F. Merlo, Li-San Wang, John W. Pepper, Peter S. Rabinovitch and Carlo C. Maley. “Polyploidy, Aneuploidy and the Evolution of Cancer,” In Poon RYC, ed., *Polyploidization and Cancer*, 676:1-13, Austin/New York: Landes Bioscience, Inc. and Springer Science+Business Media.
5. Luay Nakhleh and Li-San Wang, “Phylogenetic Networks: Properties and Relationship to Trees and Clusters,” *LNCS Transactions on Computational Systems Biology* 3680, pp. 82-99, 2005 (special invitation).
6. Li-San Wang and Tandy Warnow, “Distance-Based Genome Rearrangement Phylogeny,” in O. Gascuel ed., *Mathematics of Evolution and Phylogeny*, pp. 353–380, Oxford Univ. Press, 2005.
7. Mary E. Cosner, Robert K. Jansen, Bernard M.E. Moret, Linda A. Raubeson, Li-San Wang, Tandy Warnow, and Stacia Wyman, “An Empirical Comparison of Phylogenetic Methods on Chloroplast Gene Order Data in *Campanulaceae*,” in D. Sankoff and J. Nadeau, ed., *Comparative Genomics: Empirical and Analytical Approaches to Gene Order Dynamics, Map Alignment, and the Evolution of Gene Families*, pages 99–121, Kluwer Academic, 2000.

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#### TALKS AND CONFERENCE PRESENTATIONS

1. “Genomic Insights into Alzheimer’s Disease: Advancements, Collaborations, and Inclusive Research,” Department of Life Sciences, National Taiwan University, Taipei, Taiwan, August 15, 2024.

2. "NIA Genetics of Alzheimer's Disease Data Storage Site (NIAGADS)," The NIH Aging and AD/ADRD Omics Data Resources: A Path to Interoperability, Bethesda, MD, July 11, 2024.
3. "ACAD, NIAGADS, GCAD, and Collaborations," ADSP Program Review Meeting, Bethesda, MD, March 27-28, 2024.
4. "Genomic Insights into Alzheimer's Disease: Advancements, Collaborations, and Inclusive Research," Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan, January 22, 2024.
5. "Illuminating Alzheimer's Disease Genetic Architecture," Department of Neurology, National Taiwan University Hospital, Taipei, Taiwan, December 28, 2023.
6. "Illuminating Alzheimer's Disease Genetic Architecture," Asian Resource Center for Minority Aging Research Retreat, Rutgers University, New Brunswick, NJ, December 2, 2023.
7. "Illuminating Alzheimer's Disease Genetic Architecture," Taiwanese American Association of Biotechnology Annual Symposium, Philadelphia, PA, November 11, 2023.
8. "Illuminating Alzheimer's Disease Genetic Architecture," Virtual Presentation, Taichung Veterans General Hospital International Medical Conference, October 29, 2023.
9. "Illuminating Alzheimer's Disease Genetic Architecture via Diversity: Alzheimer's Disease Sequencing Project (ADSP) Diversity Initiative and Asian Cohort for Alzheimer's Disease (ACAD)," Minority Health and Health Disparities in Neuroscience Webinar Series, National Institute on Aging Division of Neuroscience, September 12, 2023.
10. "Asian Cohort for Alzheimer's Disease," National Alzheimer's Coordinating Center Outreach, Recruitment and Engagement Core Webinar, September 11, 2023.
11. "Illuminating the Genetic Architecture of Alzheimer's Disease," Taichung Veterans General Hospital, Taichung, Taiwan, July 6, 2023.
12. "Computational Challenges in Alzheimer's Disease Sequencing Project," Institute of Information Sciences, Academia Sinica, Taipei, Taiwan, July 4, 2023.
13. "Illuminating the Genetic Architecture of Alzheimer's Disease," Chinese Biopharmaceutical Association Science Symposium, Rockville, MD, June 24, 2023.
14. "NIA Genetics of Alzheimer's Disease Data Storage Site," NIH AD/ADRD platforms workshop: FAIRness within and across data infrastructures, June 22, 2023.
15. "Asian Cohort for Alzheimer's Disease (ACAD)," GGHE and IBI Symposium on Human Genomic Diversity and Medicine: Challenges and Solutions to Reduce Health Disparities, University of Pennsylvania, Philadelphia, PA, May 22, 2023.
16. "Illuminating the Genetic Architecture of Alzheimer's Disease: Alzheimer's Disease Sequencing Project (ADSP) and Follow-Up Sequencing 2.0 Diversity Initiative (FUS 2.0)," Penn Alzheimer's Disease Research Center, University of Pennsylvania, Philadelphia, PA, March 27, 2023.
17. "The Asian Cohort for Alzheimer's Disease (ACAD) Study," The Social, Environmental, and Biological Determinants of Dementia Disparities (SEBDDD) Conference, Emory University, Atlanta, GA, March 23, 2023.
18. "Illuminating the Genetic Architecture of Alzheimer's Disease: Alzheimer's Disease Sequencing Project and the FUS 2.0 Diversity Initiative," Institute for Biomedical Sciences, Academia Sinica, Taipei, Taiwan, December 21, 2022.
19. "Genetics of Alzheimer's Disease," International Summit for Cell Therapy and Precision Medicine, Tai-Chung Veterans General Hospital, Tai-Chung, Taiwan, December 3, 2022.

20. "Genetics of Alzheimer's Disease: 2022 Update," Tai-Chung Veterans General Hospital, Tai-Chung, Taiwan, September 24, 2022.
21. "ADSP Data Sharing: Lessons Learned," NCCoE Virtual Genomics Cybersecurity Summit, National Institute of Standards and Technology (NIST), January 26, 2022.
22. "Accessing ADSP Data," National Institute on Aging Division of Neuroscience, November 1, 2021.
23. "Improving Cohort Diversity in Alzheimer's Disease Genetics Research," From Molecular Insights to Patient Stratification for Neuropsychiatric Disorders: A Workshop, National Academy of Medicine, October 5, 2021.
24. "Introduction to NIAGADS and Alzheimer's Genetics Data," Penn Alzheimer's Disease Research Center Data and Didactics Meeting, September 27, 2021.
25. "Genetics of Alzheimer's Disease: 2021 Update," US-Taiwan Precision Medicine Forum, Taipei Economic and Cultural Office in New York, July 19, 2021.
26. "NIAGADS Resources for AD Research," Alzheimer's Disease Research Summit, April 20, 2021.
27. "Functional Follow-Up of Alzheimer's Disease Genetic Findings," GSP/TOPMed Analysis Workshop, Mount Sinai School of Medicine, New York, NY, February 12, 2020.
28. "Genetics of Alzheimer's Disease," Pathology Research Day Symposium, Department of Pathology and Laboratory Medicine, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA, September 4, 2019.
29. "Genetics of Alzheimer's Disease," Developmental Center for Biology, Taipei, Taiwan, August 21, 2019.
30. "Genetics of Alzheimer's Disease," Taichung Veterans General Hospital, Taichung, Taiwan, May 7, 2019.
31. "Genetics of Alzheimer's Disease," Third International Taiwan Congress of Neurology and Annual Meeting of Taiwan Neurological Society, Taipei, Taiwan, May 4, 2019.
32. "Computational challenges in whole genome sequencing studies," Chosun University, Gwangju, Korea, September 20, 2018.
33. "Deciphering the genetic Architecture of Alzheimer's disease," 30th International Conference of the Korean Society for Molecular and Cellular Biology (KSMCB), Seoul, Korea, September 19, 2018.
34. "Deciphering the genetic Architecture of Alzheimer's disease," Academia Sinica, Taipei, Taiwan, September 17, 2018.
35. "Computational challenges in whole genome sequencing studies," National Taiwan University, Taipei, Taiwan, September 13, 2018.
36. "Computational challenges in whole genome sequencing studies," National Chiao-Tung University, Hsin-Chu, Taiwan, September 11, 2018.
37. "STEM Career Prosperity: A perspective of a computational geneticist," Keynote Speaker, 2018 STEM Education Conference, Eastern Tennessee State University, Johnson City, TN, June 1, 2018.
38. "From Human Genetics to a Drug Target for Alzheimer's Disease," EITA-Healthcare Ventures 2018, New York, NY, April 27, 2018.
39. "Genetics of Alzheimer's Disease," Stanford ADRC/Pacific Udall Center 2017-2018 Distinguished Speaker Series, Stanford University, Stanford, CA, April 17, 2018.
40. "Deep analysis of next generation sequencing experiments," Department of Life Science, National Taiwan University, Taipei, Taiwan, April 11, 2018.

41. "Genetics, Genomics, and Big Data in Medicine," Department of Electrical Engineering, National Cheng-Kung University, Tainan, Taiwan, November 20, 2017.
42. "Computational Challenges in Next Generation RNA Sequencing Analysis," Institute of Communications Engineering, National Tsing Hua University, Hsin-Chu, Taiwan, November 17, 2017.
43. "Genetics of Alzheimer's Disease," Institute of Epidemiology and Preventative Medicine, National Taiwan University, Taipei, Taiwan, November 16, 2017.
44. "Bioinformatics and Genomic Medicine in the Big Data Era," Graduate Institute of Electrical Engineering Seminar, National Central University, Taoyuan, Taiwan, November 15, 2017.
45. "Genetics of Progressive Supranuclear Palsy and Alzheimer's Disease," Center for Neurodegenerative Disease Research Seminar, University of Pennsylvania, Philadelphia, PA, September 26, 2017.
46. "ADSP Data Production and Sharing," National Institute on Aging Scientific Summer Retreat, Bethesda, MD, June 19, 2017.
47. "Alzheimer's Disease Sequencing Project Discovery Phase Data Management," dbGaP 10th Anniversary, National Institutes of Health, Bethesda, MD, June 9, 2017.
48. "Role and Resources of National Institute on Aging Genetics of Alzheimer's Disease Data Storage Site And Genome Center for Alzheimer's Disease," The 13th International Conference on Alzheimer's and Parkinson's Diseases (AD/PD), Vienna, Austria, March 28, 2017.
49. "Genetics of Alzheimer's Disease: Bioinformatics Challenges," Department of Medical Genetics, Indiana University, Indianapolis, IN, March 20, 2017.
50. "Introduction to Alzheimer's Disease Sequencing Project," Center for Neurodegenerative Disease Research Seminar, University of Pennsylvania, Philadelphia, PA, March 9, 2017.
51. "Alzheimer's Disease Sequencing Project," Center for Cancer Computational Biology at Dana-Farber Cancer Institute, Boston, MA, November 2, 2016.
52. "Alzheimer's Disease Sequencing Project," Mid-Atlantic Bioinformatics Conference, Children's Hospital of Philadelphia, Philadelphia, PA October 26, 2016.
53. "Alzheimer's Disease Sequencing Project," EITA Smart Cities Forum, Massachusetts Institute of Technology, Boston, MA August 26, 2016.
54. "Genetics of Alzheimer's Disease: What's Next after GWAS," Department of Life Science, National Taiwan University, Taipei, Taiwan July 13, 2016.
55. "Bioinformatic Challenges for DNA-seq and RNA-seq Experiments," Advancing Computational Biology Symposium, Howard University, Kellogg Conference Hotel, Washington, DC, April 8, 2016.
56. "Bioinformatic Challenges to RNA-Seq Experiments," No Boundaries Thinking Workshop, University of Pennsylvania, Philadelphia, PA, December 12, 2015.
57. "Coordinating bioinformatics support for large-scale genomics collaboration: NIAGADS and ADSP," Mid-Atlantic Directors and Staff of Scientific Cores and Southeastern Association of Shared Services, Charlottesville, VA, June 4, 2015.
58. "Bioinformatics and genomic medicine in the big data era," 2015 Taiwan-US Biotech Business Forum, Philadelphia, PA, June 15, 2015.
59. "NIAGADS and ADSP," National Institute on Aging Annual Retreat, NIH Campus, Bethesda, MD, May 26, 2015.
60. "Alzheimer's Disease: A Genomics Approach," Department of Computer Science and Information Engineering, National Cheng-Kung University, Tainan, Taiwan, December 22, 2014.

61. "Alzheimer's Disease: A Genomics Approach," Delaware Biotechnology Institute, University of Delaware, Newark, DE, September 8, 2014.
62. "Bioinformatics and Genetics for Alzheimer's Disease," Panel Discussions: Big Data Analytics for Biomedical Science, EITA Bio and New Media Conference (EITA-Bio 2014), Massachusetts Institute of Technology, Boston, MA, USA, August 1, 2014.
63. "Bioinformatics for DNA-seq and RNA-seq experiments," PhyloLab Conference on Computational Biology, Department of Computer Sciences, University of Texas at Austin, Austin, TX, May 31, 2014.
64. "Analyzing DNA-Seq Data Using DRAW: Lessons Learned from Using Amazon EC2 for Next-Generation Sequencing Studies," Bio-IT World Conference and Expo, Track 3: Cloud Computing, Seaport World Trade Center, Boston, PA, May 1, 2014.
65. "Introduction to NIAGADS," Spring ADC meeting ADC Director's meeting, Philadelphia, PA, April 26, 2014.
66. "Analyzing high-throughput sequencing experiments using Cloud technology," Spring ADC meeting University of Pennsylvania ADCC Site Visit, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA, April 25, 2014.
67. "Genetics of Alzheimer's Disease," Biomedical Image Computing and Informatics Seminar, Center for Biomedical Image Computing and Analytics University of Pennsylvania Perelman School of Medicine, Philadelphia, PA, April 3, 2014.
68. "Genetics of Alzheimer's Disease: GWAS, NGS, and Bioinformatics," Brain, Aging, and Neurodegeneration (BAND) seminar, Department of Pathology, University of Washington, Seattle, WA, February 24, 2014.
69. "Bioinformatics for DNA-Seq and RNA-Seq experiments," Graduate Institute of Biomedical Electronics and Bioinformatics (BEBI), National Taiwan University, Taipei, Taiwan, October 21, 2013.
70. "Workshop III: Analyzing DNA-seq Experiments Using DRAW+SneakPeek," Bioinformatics in Taiwan (BIT) conference, National Yang-Ming University, Taipei, Taiwan, October 20, 2013.
71. "Alzheimer's Disease: A Genomics Approach," Bioinformatics in Taiwan (BIT) conference, National Yang-Ming University, Taipei, Taiwan, October 18, 2013.
72. "Genetics of Alzheimer's Disease," Department of Life Science, National Taiwan University, Taipei, Taiwan, August 16, 2013.
73. "Bioinformatics for DNA-seq and RNA-seq experiments," Institute of Biomedical Informatics, National Yang-Ming University, Taipei, Taiwan, August 15, 2013.
74. "Bioinformatics for DNA-seq and RNA-seq experiments," Institute of Information Sciences, Academia Sinica, Taipei, Taiwan, August 7, 2013.
75. "NIA Genetics of Alzheimer's Disease Data Storage Site (NIAGADS)," EITA Young Investigator Conference (EITA-YIC 2013), Massachusetts Institute of Technology, Boston, MA, USA, August 2, 2013.
76. "Rare Variants from High-Density Exome Genotyping in Late-Onset Alzheimers Disease (LOAD): Update from Alzheimers Disease Genetics Consortium (ADGC)," Alzheimer's Association International Conference (AAIC 13), Boston Convention Center, Boston, MA, USA, July 16, 2013.
77. "Rare Variants from High-Density Exome Genotyping in Late-Onset Alzheimers Disease (LOAD): Update from Alzheimers Disease Genetics Consortium (ADGC)," 62nd Annual Meeting of the American Society of Human Genetics (ASHG), San Francisco, CA, November 9, 2012.
78. "The NIA Genetics of Alzheimer's Disease Database Storage Site (NIAGADS)," Second EITA-Bio Conference, Princeton University, Princeton, NJ, October 28, 2012.

79. "Genetics of Alzheimer's Disease," Department of Biostatistics, University of Kentucky, Lexington, KY, October 12, 2012.
80. "Bioinformatics for DNA-seq and RNA-seq experiments," Grand Rounds, Department of Pathology and Laboratory Medicine, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA, October 8, 2012.
81. "Genetics of Alzheimer's Disease," EITA/EITC-2012, Bahen Centre for Information Technology, University of Toronto, Toronto, Ottawa, Canada, August 16, 2012.
82. "Genomics of Alzheimer's Disease," Center for Systems and Synthetic Biology, National Yang-Ming Medical University, Taipei, Taiwan, July 6, 2012.
83. "Alzheimer's Disease and toxicity exposure: a gene-environment interactions analysis," 4th Biennial Conference of American Society of Health Economists (ASHEcon), Minneapolis, MN, June 13, 2012.
84. "Gene expression in aging and neurodegeneration: a bioinformatics approach," Sergievsky Center, Columbia University Medical Center, New York, NY, February 27, 2012.
85. "Analysis of the CNV distribution in the ADGC GWAS dataset," Invited speaker, Genome-wide Association Studies of Alzheimer's Disease Symposium, Alzheimer's Association International Conference (AAICAD 11), Paris Convention and Exhibition Center, Paris, France, July 17, 2011.
86. "A genetic analysis pipeline for whole-exome deep sequencing," Third Next Generation Sequencing Symposium, Children's Hospital of Philadelphia, Philadelphia, PA, June 14, 2011.
87. "A genetic analysis pipeline for whole-exome deep sequencing," 2011 Workshop on Computational Biology in Reproduction, Conference on Reproduction and Regeneration, University of Pennsylvania, Philadelphia, PA, June 14, 2011.
88. "Gene expression in aging and aging-associated diseases," Carnegie-Mellon-Pittsburgh Joint Computational Biology program, Carnegie Mellon University, Pittsburgh, PA, April 22, 2011.
89. "Multiclass RNA function classification using RNA-seq," First International Conference on Computational Advances in Bio and medical Sciences (ICCABS), Orlando, FL, February 3, 2011.
90. "Next Generation Sequencing and Hematologic Diseases: a Panel Discussion," with Don Baldwin, Richard Aplenc, Martin Carroll, Hakon Hakonarson, and Brian D. Gregory, Penn/CHOP Hematologic Malignancies Program Joint Retreat, Philadelphia, PA, July 13, 2010.
91. "Correcting Population Stratification in Genetic Association Studies Using a Phylogenetic Approach," EITC 2010, Stanford University, Palo Alto, CA.
92. "Population structure and genome-wide association studies," Illumina Seminar Series, Philadelphia, PA, USA, February 9, 2010.
93. "The impact of Multiple Protein Sequence Alignment on Phylogenetic Estimation," CIPRES All Hands Meeting, University of California at Berkeley, Berkeley, CA, July 22, 2009.
94. "Bioinformatic Approaches to Aging-Associated Gene Expression Modulation," Department of Pathology and Laboratory Medicine Grand Rounds, University of Pennsylvania, Philadelphia, PA, June 22, 2009.
95. "A Simple Introduction to Genome-Wide Association Studies," New York Academic Forum, Taipei Economic and Cultural Office, New York, NY, December 19, 2008.
96. "Genome-Wide Association Studies for Brain Disorders," Penn Center for Bioinformatics Annual Retreat, Philadelphia, PA, November 11, 2008.
97. "Introduction to NCBI and Other Online Bioinformatics Resources," Society for Developmental Biology Annual Meeting, Philadelphia, PA, July 28, 2008.



98. "Scaling Genome Rearrangement Phylogeny Reconstruction," Microsoft Research Workshop on Computational Aspects of Biological Information (CABI), Redmond, WA, December 6, 2007.
99. "Phylogenetic Estimation for Complex Evolutionary Processes," Center for Computational Biology and Bioinformatics, University of Maryland at College Park, November 15, 2007.
100. "Regulatory Module Discovery With Heterogeneous Data by Multipartite Cocustering," 39th Symposium on the Interface: Computing Science and Statistics: Systems Biology, Philadelphia, PA, May 25, 2007.
101. "Clustering in the Space of Phylogenies," Department of Computer and Information Science and Interdisciplinary Faculty Seminar on Biomedical Informatics, Fordham University, New York City, February 22, 2007.
102. "Phylogenetic Estimation for Complex Evolutionary Processes," Institute of Information Science, Academia Sinica, Taipei, Taiwan, January 4, 2007.
103. "Phylogenetic Estimation for Complex Evolutionary Processes," Department of Computer Science and Information Engineering, National Taiwan University, Taipei, Taiwan, December 22, 2006.
104. "Interaction and Progression Modeling from Functional Genomics Data," Institute on Aging and Department of Pathology and Laboratory Medicine, University of Pennsylvania, April 20, 2006.
105. "Phylogenetic Estimation for Complex Evolutionary Processes," School of Computer Science, University of New Mexico, Albuquerque, NM, March 30, 2006.
106. "Phylogenetic Estimation for Complex Evolutionary Processes," School of Computer Science, McGill University, Montreal, Canada, March 22, 2006.
107. "Phylogenetic Estimation for Complex Evolutionary Processes," Department of Computer Science, University of Pittsburgh, Pittsburgh, PA, February 28, 2006.
108. "Phylogenetic Estimation for Complex Evolutionary Processes," Department of Biology, Virginia Polytechnic Institute and State University, Blacksburg, VA, February 16, 2006.
109. "Genome Rearrangement Phylogeny," Department of Computer Science, Virginia Polytechnic Institute and State University, December 13, 2005.
110. "Improving Genome Rearrangement Phylogeny Using Sequence-Style Parsimony," conference presentation, *IEEE Fifth Symposium on Bioinformatics and Bioengineering (BIBE'05)*, University of Minnesota at Twin Cities, October 20, 2005.
111. "Enhanced position weight matrices using mixture models," conference presentation, *Thirteenth International Conference on Intelligent Systems for Molecular Biology (ISMB'05)*, Detroit, USA, June 28, 2005.
112. "Improving Genome Rearrangement Phylogeny Using Sequence-Style Parsimony," *Biocomplexity Workshop*, University of Texas at Austin, April 29, 2005.
113. "Genome Rearrangement Phylogeny," Department of Mathematics, Lehigh University, April 27, 2005.
114. "Genome Rearrangement Phylogeny," Department of Computer Science, University of Illinois at Urbana Champaign, April 4, 2005.
115. "Phylogenetic and Functional Analyses at the Genomic Scale," Department of Biostatistics and Medical Informatics, University of Wisconsin at Madison, March 9, 2005.
116. "Phylogenetic and Functional Analyses at the Genomic Scale," Department of Biomedical Informatics, Ohio State University, February 28, 2005.

117. "Semi-Parametric Gene Ranking for Microarray Experiments," *the Fourth Annual Emerging Information Technology Conference (EITC)*, Princeton University, October 28, 2004.
118. "Distance-Based Genome Rearrangement Phylogeny," *the Third Annual Emerging Information Technology Conference (EITC)*, Princeton University, October 31, 2003.
119. "Distance-Based Genome Rearrangement Phylogeny," *IMA/RECOMB Satellite Workshop on Comparative Genomics*, University of Minnesota, October 20 – 24, 2003.
120. "Distance-Based Genome Rearrangement Phylogeny," *Workshop on New Trends in Phylogenetics and Genomics*, University of Tübingen, Germany, July 1 – 4, 2003.
121. "A Simulation Study for Genome Rearrangement Phylogeny Using Beta-Splitting Models," *Biocomplexity Workshop*, University of Texas at Austin, April 12, 2003.
122. "Markovian Models for Genome Rearrangements," *Mathematics of Evolution and Phylogeny Workshop*, Institut Henri Poincaré, France, June 16-19, 2003.
123. "Distance-Based Genome Rearrangement Phylogeny Reconstruction," Department of Computer Science, Virginia Institute of Technology, April 30, 2003.
124. "Genome Rearrangement Phylogeny," *DIMACS Tree of Life Workshop*, Rutgers University, March 11 – 14, 2003.
125. "Distance-Based Genome Rearrangement Phylogeny," Department of Zoology, University of Chicago, January 30, 2003.
126. "Distance-Based Genome Rearrangement Phylogeny Reconstruction," Whitehead Institute, Massachusetts Institute of Technology, January 9, 2003.
127. "Genome Rearrangement Phylogeny Using Weighbor," conference presentation, *Second Workshop on Algorithms in Bioinformatics (WABI'02)*, Rome, Italy, September 17, 2002.
128. "Postprocessing of Phylogenetic Analysis Using Clustering," conference presentation, *Tenth International Conference on Intelligent Systems for Molecular Biology (ISMB'02)*, Edmonton, Canada, August 7, 2002.
129. "Computational Methods for Genome Rearrangement Phylogeny," *Biocomplexity Workshop*, University of Texas at Austin, April 12, 2002.
130. "Genome Rearrangement Phylogeny Estimation," *the Colloquium on Biosystematics and Evolution Biology*, hosted by Department of Biology, Stanford University and California Academy of Sciences, March 15, 2002.
131. "Fast Methods for Genome Rearrangement Phylogeny Estimation," Department of Ecology and Evolutionary Biology, Yale University, February 18, 2002.
132. "Clustering and Consensus for Phylogenetic Analysis," *DIMACS Bioconsensus 2 Workshop*, Rutgers University, October 4 – 7, 2001.
133. "New Polynomial Time Methods for Whole Genome Phylogeny Reconstruction," *DIMACS Whole Genome Comparison Workshop*, Rutgers University, February 28 – March 2, 2001.