Gao Wang

ASSISTANT PROFESSOR VAGELOS COLLEGE OF PHYSICIANS AND SURGEONS COLUMBIA UNIVERSITY 630 W. 168TH ST. PH 19 RM 304, NEW YORK, NY 10032 **a** 1 212 305 9149

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EDUCATION

2009 - 2014	PhD	Structural and Computational Biology and Molecular Biophysics graduate program, Baylor College of Medicine, Houston, TX, USA Thesis advisor: Prof. Suzanne M. Leal
2009 - 2013	Visitii	ng PhD student, Department of Statistics, Rice University, Houston, TX, USA
2005 - 2009	BSc	Bioscience undergraduate program, Beijing Forestry University, Beijing, China Thesis advisor: Prof. Jürg Ott at Beijing Institute of Genomics \mathcal{E} The Rockefeller University Outstanding Undergraduate Thesis Award

POSTDOCTORAL FELLOWSHIP

2015 - 2020	Postdoctoral scholar	Matthew Stephens Lab, The University of Chicago
2014 - 2015	Postdoctoral associate	Center for Statistical Genetics, Baylor College of Medicine

ACADEMIC POSITIONS

2020 - Assistant Professor of Neurological Science, Department of Neurology, Vagelos College of Physicians and Surgeons, Columbia University, New York, NY, USA

AWARDS AND HONORS

2022	Reviewer's Choice Abstract Award, American Society of Human Genetics
2018	Reviewer's Choice Abstract Award, American Society of Human Genetics
2014	Nominated Williams Award, International Genetic Epidemiology Society
2010	Professor John J. Trentin Award for Scholastic Excellence, Baylor College of Medicine
2009	Outstanding Graduate of Beijing City, Beijing Forestry University
2008	National College Science Innovation Funds Recipient, Beijing Forestry University
2007	First Prize in Science and Technology Contest, Beijing Forestry University

PROFESSIONAL ACTIVITIES

Journal Referee

2022 - present	Journal of Clinical Investigation
2021 - present	Nature Genetics, eLife, Annals of Applied Statistics
2020 - present	Genetics, Genetic Epidemiology, Nature Communications
2019 - present	PLOS Genetics, Computational Biology and Chemistry
2016 - present	Scientific Reports
2015 - present	GENE, Bioinformatics
2014 - present	American Journal of Human Genetics, PLOS ONE

TEACHING

Short Courses ar	nd Workshops	
2021.01 - present	Instructor	Advanced Gene Mapping, taught every year in Winter
		The Rockefeller University, New York, NY, USA
2018.07	Instructor	Analysis of Large-Scale Rare Variant Association Studies,
		Tutorial workshop at the 26th ISCB on Intelligent Systems
		for Molecular Biology, Chicago, IL, USA
2014.09	Instructor	Integrated Analysis of Next Generation Sequence Data,
		Tutorial workshop at the 5th ACM Conference on Bioinformatics,
		Computational Biology and Health Informatics, Los Angeles, CA, USA
2014.04	Instructor	Analysis of Next Generation Sequence Data Workshop,
		Perelman School of Medicine, University of Pennsylvania, PA, USA
2013.06	Instructor	Annual Advanced Topics in Genome-Wide Association Studies Course,
		Ontario Institute for Cancer Research, Toronto, Canada
2009.06	Teaching Assistant	Statistical Gene Mapping Course: Case-control Association Data,
		Beijing Institute of Genomics, Beijing, China

Undergraduate and Graduate Courses

2020.09 - present	Instructor	COMS 6901 Projects in Computer Science,
		Columbia University
2020.09 - present	Instructor	COMS 3998 Undergraduate Projects in Computer Science,
		Columbia University
2010.01	Teaching Assistant	Quantitative Genetics,
	_	Baylor College of Medicine
2009.03	Teaching Assistant	Statistical Genetics,
	· ·	Beijing Institute of Genomics

Other teaching and mentoring experiences

2022.08 - 2023.08 Mentor Careers through Mentoring and training in Omics and Data for Early-stage investigators,
Columbia University and national-wide

SEMINARS AND SYMPOSIUMS PRESENTATIONS

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2021.04	Invited talk at 23andme StatGen and CompBio groups		
2020.11	TAMU Statistics Colloquium Series, Texas A&M, College Station, TX, USA		
2020.11	Biostatistics Seminar Series, Department of Public Health Sciences, Penn State College of Medicine, Philadelphia, PA, USA		
2019.06	Symposium on Advances in Genomics, Epidemiology and Statistics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA		
2018.11	Bayesian variable selection and multivariate analysis for genetic association studies, University of Texas Southwestern Medical Center, Dallas, TX, USA		
2018.11	The Script of Scripts workflow system for reproducible research in computational biology, University of Texas Southwestern Medical Center, Dallas, TX, USA		

Conferences

2015.10	Pitfalls in development of statistical methods for rare variant association studies,
	Annual conference of American Society of Human Genetics, Baltimore, MD, USA
2014.08	The collapsed haplotype pattern method for linkage analysis of sequencing data,
	Annual conference of International Genetic Epidemiology Society, Vienna, Austria
2012.10	Variant Association Tools for quality control and association analysis of exome data,
	Annual conference of International Genetic Epidemiology Society, Stevenson, WA, USA

PUBLICATIONS

Before 2020 (as a trainee)	https://tigerwang.org/research_details/2019	
After 2020 (as a faculty member)	https://wanggroup.org/project_resource/publication	
SOFTWARE PROJECTS		

SOFTWARE PROJECTS

Before 2020 (as a trainee) https://tigerwang.org/software
After 2020 (as a faculty member) https://wanggroup.org/project_resource/compbio_tools