

YUE WU

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[Google Scholar](#) | [Linkedin](#) | [GitHub](#)

EDUCATION

University of Georgia, Institute of Bioinformatics
Ph.D.

Sep.2017-Jul.2022

Nanjing University, School of Life Science
Bachelor of Science in Biology, GPA: 3.82/4.0

Sep.2012-Jul.2016

WORK EXPERIENCE

Postdoc, Stanford University
Advisor: Michael Snyder
Precision medicine, time series, multi-omics integration

Aug. 2022-

Institute of Bioinformatics, University of Georgia
Advisor: Arthur S. Edison and Jonathan Arnold
Modeling metabolic dynamics and NMR related computational methods

Dec. 2017- Jul.2022

Computational Systems Biology (CSBL) Lab, University of Georgia
Pathway based statistical analysis and transcriptome analysis

Jul. 2016-Aug. 2017

Chen Lab, Nanjing University
Phylogenetic analysis in Plants and Archaea

Feb. 2013-Jul. 2016

PUBLICATIONS

Ehlert B, Shah K, Katarya D, **Wu Y**, Wang T, Snyder MP. INSIGHT: Ingest and Standardize Glucose Harmonization Tool. **J Diabetes Sci Technol** (2026)

Barapour, N., Cao, J. Z., **Wu, Y.** et al. A comparison of deep multiomics profiles across ethnicity, geography, and age. **Cell**. (2026)

Reported by [Institute for Systems Biology](#).

Wu Y, et al. [Modifiable Factors Affecting the Postprandial Glycemic Response](#). **J Diabetes Sci Technol**. (2026)

Metwally AA, Park H, Wu Y, McLaughlin T, Snyder MP. [Use of Continuous Glucose Monitoring with Machine Learning to Identify Metabolic Subphenotypes and Inform Precision Lifestyle Changes](#). **J Diabetes Sci Technol**. (2025)

Wu, Y., Ehlert, B., Metwally, A.A. et al. [Individual variations in glycemic responses to carbohydrates and underlying metabolic physiology](#). **Nature Medicine** (2025). [GitHub](#)
Reported by [News Medical Life Science](#), [Genetic Engineering & Biotechnology News](#), [Stanford Medicine News](#), [Bioengineer.org](#), [American Council on Science and Health](#), and [Labmate](#)

Park, H., A.A. Metwally, A. Delfarah, **Y. Wu**, et al. [High-resolution lifestyle profiling and metabolic subphenotypes of type 2 diabetes](#). **npj Digital Medicine**, 2025. 8(1). [GitHub](#)
Reported by [News Medical Life Science](#) and [World Today News](#)

- Ehlert, B., D. Aron, D. Perelman, **Y. Wu**, and M.P. Snyder. [Glucose360: An Open-Source Python Platform with Event-Based Integration for Continuous Glucose Monitoring Data Analysis](#). **Diabetes Technology & Therapeutics**, 2025.
- Isaac Torres, Shufan Zhang, Amanda Bouffier, Michael Skaro, **Yue Wu**, et al. [MINE: a new way to design genetics experiments for discovery](#). **Briefings in Bioinformatics**, 26, 2 (2025).
- Metwally, A.A., D. Perelman, H. Park, **Y. Wu**, et al. [Prediction of metabolic subphenotypes of type 2 diabetes via continuous glucose monitoring and machine learning](#). **Nat Biomed Eng**, (2024).
- Zhang, S., **Wu, Y.**, Skaro, M. et al. [Computer vision models enable mixed linear modeling to predict arbuscular mycorrhizal fungal colonization using fungal morphology](#). **Sci Rep** 14, 10866 (2024). [GitHub](#)
- Wu, Y.**, Sanati, O., Uchimiya, M., Krishnamurthy, K., Wedell, J., Hoch, J. C., Edison, A. S. & Delaglio, F. [SAND: Automated Time-Domain Modeling of NMR Spectra Applied to Metabolite Quantification](#). **Anal Chem** 2024, 96 (5), 1843-1851. [GitHub](#)
- Wu Y**, Judge MT, Edison AS, Arnold J. [Uncovering in vivo biochemical patterns from time-series metabolic dynamics](#). **PloS one**. 2022;17(5):e0268394. [GitHub](#)
- Emily K Krach, Michael Skaro, **Yue Wu**, Jonathan Arnold. 2022. [Characterizing the gene–environment interaction underlying natural morphological variation in *Neurospora crassa* conidiophores using high-throughput phenomics and transcriptomics](#). **G3 Genes|Genomes|Genetics**, jkac050, <https://doi.org/10.1093/g3journal/jkac050>
- Yue Wu**, Michael T. Judge, Jonathan Arnold, Suchendra M. Bhandarkar and Arthur S. Edison. 2020. [RTExtract: Time-series NMR spectra quantification based on 3D surface ridge tracking](#). **Bioinformatics** btaa631, <https://doi.org/10.1093/bioinformatics/btaa631>. [GitHub](#)
- Krach, E.K.; **Wu, Y.**; Skaro, M.; Mao, L.; Arnold, J. [Wild Isolates of *Neurospora crassa* Reveal Three Conidiophore Architectural Phenotypes](#). **Microorganisms** 2020, 8, 1760. [GitHub](#)
- Judge Michael T., **Wu Yue**, Tayyari Fariba, Hattori Ayuna, Glushka John, Ito Takahiro, Arnold Jonathan, Edison Arthur S. [Continuous in vivo Metabolism by NMR](#). 2019. **Frontiers in Molecular Biosciences**. 6: 26.
- Wu Yue**, Wu Ping, Wang Bin, Shao Zhu-Qing. [Genome-Wide Analysis Reveals Ancestral Lack of Seventeen Different tRNAs and Clade-Specific Loss of tRNA-CNNs in Archaea](#). 2018. **Frontiers in Microbiology**. 9: 1245.
- Sha Cao, Yi Zhou, **Yue Wu**, Tianci Song, Burair Alsaihati, and Ying Xu. [Transcription regulation by DNA methylation under stressful conditions in human cancer](#). 2017. **Quantitative Biology**. 5: 328-337
- Yuan Tian, Wei Du, Sha Cao, **Yue Wu**, Ning Dong, Yan Wang, and Ying Xu. [Systematic analyses of glutamine and glutamate metabolisms across different cancer types](#). 2017. **Chinese Journal of Cancer**. 36:88.
- Ping Wu, **Yue Wu**, Cheng-Chen Liu, Li-Wei Liu, Fang-Fang Ma, Xiao-Yi Wu, Mian Wu, Yue-Yu Hang, Jian-Qun Chen, Zhu-Qing Shao, and Bin Wang. 2016. [Identification of Arbuscular Mycorrhiza \(AM\)-Responsive microRNAs in Tomato](#). **Front. Plant Sci** 7:429.
- Zhu-Qing Shao, Jia-Yu Xue, Ping Wu, Yan-Mei Zhang, **Yue Wu**, Yue-Yu Hang, Bin Wang, and Jian-Qun Chen. 2016. [Large-scale analyses of angiosperm nucleotide-binding site-leucine-rich repeat \(NBS-LRR\) genes reveal three anciently diverged classes with distinct evolutionary patterns](#). **Plant Physiology** 170: 2095-2109.
- In preparation**
Central metabolites modeling based on time series NMR measurement in *Neurospora crassa*. [GitHub](#)

AWARDS

Stanford ADVANCE fellow (\$100k)	2024-
Accelerate Innovation in Diabetes LeVeraging Unique PATHways iN Asians Program	
American Diabetes Association Postdoctoral Fellowship (\$203k)	2023-
Title: Stratification of postprandial responses by CGM and multi-omics	
Stanford Cardiovascular Institute Manuscript Award (\$750)	2026
Stanford Cardiovascular Institute travel grant (\$750)	2023
Stanford Bio-X travel grant (\$500)	2023
XSEDE Startup grant (\$2,623.75)	2020
Graduate school travel grant	2019
Outstanding graduate with honor	2016
Silver Medal, iGEM (International Genetically Engineered Machine) competition	2013-2014
First-class People's Scholarship	2014&2015
Leading the development of grant submitted to NIH AIMINGS (\$125k, awarded), Stanford Diabetes Research Center, Stanford Nutrition Obesity Research Center, Abbott, Novo Nordisk, and AWS.	

INVITED PRESENTATIONS

MANA 2026, Davis, California	Sep. 2026
Bay Area Metabolism Meeting, Stanford	Sep 2025
SDRC (Stanford Diabetes Research Center) Frontier symposium, Stanford	May 2025
SSATHI meeting, Stanford	Apr. 2025
MANA 2023, Columbia, Missouri	Oct. 2023
SMB 2023, Columbus, Ohio	Jul. 2023
MANA (Metabolomics Association of North America) SODA (Software and Data) group	Dec. 2022
IVAN NMR conference, Virtual	Aug. 2022
Network of Advanced NMR seminar, Virtual	Oct. 2021
MANA 2021, Virtual	Oct. 2021
MANA 2019, Atlanta, Georgia	Nov. 2019

Poster presentation at computational and medical conferences: Diabetes Technology meeting 2025, CADA 2025, American Society for Nutrition 2025, ADA 2024-2026, Bio-X 2023&2026, RECOMB 2021, MANA 2020, SciPy 2020, PEARC 2019 and Metabolomics 2018

TEACHING

Short course on Metabolomics toolbox	2020
PBIO/BINF 4550/6550 Bioinformatics and Omics	Fall. 2019

MENTORING

2025-	Krish Umang Shah (MS student), CGM modeling
2026	Bo Lemkin (Summer intern), CGM modeling
2026	Riya Navani (Undergraduate), dietary intervention
2026	Shreya Bharathi Srikanth (Summer intern), omics integration
2026-	Xinyi Shen (postdoc), CGM modeling
2023-2025	Yingzhou Lu (postdoc->Google), omics integration
2023-2025	Suchitra Sudarshan (Data Analyst->Illumina), omics integration
2024-2025	Alessandra Ayers (Diabetes Technology Society (DTS) Intern->MS student), dietary intervention
2025-2026	Mandy Shao (DTS intern), dietary intervention

2025-2026	Agatha Scheideman (DTS intern), dietary intervention
2025-	Sayra Gorgani (PhD student), Stomach sensing
2024-	Jenny Kim (Master->PhD student), omics integration
2022-2025	Ben Ehlert (PhD student->industry), CGM modeling
2020-2023	Omid Sanati (PhD student->Molex), spectral deconvolution
2022	Leandro Ponce (PhD student), spectral deconvolution
2020-2023	Shufang Zhang (PhD student->DVM student), image segmentation

SERVICE

MANA Software and Data group (SODA) co-chair	<i>2023-present</i>
Organizing MANA2023 workshop “Farm to (data)Table: How has your data been Processed?”	<i>2023</i>
Editorial board of Frontier in Systems Biology	<i>2023-present</i>
Maintaining Metabolomics toolbox repository (GitHub)	<i>2019-2023</i>
REU Student mentor at UGA	<i>2021 summer</i>
AARLS (Anti-racism in the Life Sciences) Mentor at UGA	<i>2021</i>
Organizing committee of Machine learning Mini-symposium (Athens, GA)	<i>2019</i>
PEARC19 student program travel grant and volunteer	<i>2019</i>
Reviewer of Nature Metabolism, Nature Communication, Journal of Diabetes Science and Technology, SciPy, BIBM, GigaScience, Frontiers in Systems Biology, PeerJ, BioMed Research International, Biochemical Genetics, and Magnetic Resonance in Chemistry.	

SKILLS

Programming languages:	R, Python, MATLAB, and C++
Tools & Libraries	PyTorch, scikit-learn
Bioinformatics analysis:	Pathway analysis, Metabolomics, NMR processing, multi-omics integration, wearable data
Computational methods:	Machine learning, MCMC, time series modeling, image methods, network modeling