



Ge Research Group Alumni

Former Ph.D. Students

Jiang Zhang, PhD	Tongji University; B.S. Chemistry	2005–2010
<ul style="list-style-type: none">• Thesis: Exploring the Cardiac Proteome: Integrating Bottom-up and Top-down Mass Spectrometry Strategies; Ph.D., August 2010 (Joint supervision with Prof. Lingjun Li).• Current position: Senior Scientist at Abbvie Inc.		
Zachery Gregorich, PhD	St. Norbert College; B.S., Chemistry and Biology Molecular and cellular pharmacology training program (<i>NIH NRSA Pre-doc Fellowship</i>) (<i>2016 ASMS Graduate Student Award</i>)	2012–2017
<ul style="list-style-type: none">• Thesis: The role of sarcomeric proteins and their post-translational modifications in striated muscle health, disease, and aging; Ph.D., August 2017• Current position: Assistant Scientist at UW-Madison		
Wenxuan (Vege) Cai, PhD	Hong Kong University of Science and Technology; B.S., Biology Molecular and cellular pharmacology training program (<i>American Heart Association Pre-doc Fellowship</i>) (<i>2018 ASMS Graduate Student Award</i>)	2014–2018
<ul style="list-style-type: none">• Thesis: A proteomics approach towards understanding hypertrophic cardiomyopathy; Ph.D., August 2018• Current position: Pharmacist at Navitus Health Solutions		
Yutong Jin, PhD	Nankai University; B.S., Chemistry Analytical chemistry graduate program	2014–2019
<ul style="list-style-type: none">• Thesis: Development and application of top-down and middle-down proteomics for comprehensive protein characterization in the muscle proteome; Ph.D., May 2019• Current position: Scientist III at AstraZeneca Alexion Pharmaceuticals, Inc		
Bifan Chen, PhD	St. Olaf College, B.S., Chemistry Analytical chemistry graduate program (<i>CPSA USA Steven A. Hofstadler Graduate Student Award, 2017</i>) (<i>ASMS Graduate Student Award, 2017</i>) (<i>CACA Student Excellence Awards in Chromatography, 2018</i>) (<i>Gary Parr Memorial Award from the Department of Chemistry, 2019</i>)	2014–2019
<ul style="list-style-type: none">• Thesis: Advancing intact protein analysis by top-down mass spectrometry: enrichment, separation, and characterization; Ph.D., May 2019• Current position: Principal Scientist at Genentech		
Kyle Brown, PhD	University of North Carolina, Chapel Hill, B.S., Chemistry Analytical chemistry graduate program (<i>The UW Cardiovascular Research Center's Training Program in Translational Cardiovascular Science (TPTCS) Pre-doc Fellowship</i>) (<i>The UW Vascular Biology Training Program Post-doc Fellowship</i>) (<i>CPSA USA 2019 Steven A. Hofstadler Graduate Student Award</i>) (<i>ASMS Graduate Student Award, 2020</i>)	2015–2020
<ul style="list-style-type: none">• Thesis: Novel Proteomic Approaches to Characterize Endogenous Membrane Proteins; Ph.D., Aug. 2020• Current Position: Research Scientist at Regeneron		

Trisha Tucholski, PhD	Penn State University, B.S., Chemistry Analytical chemistry graduate program <i>(UW-Chemical Biology Interface Training Program Pre-doc fellowship)</i> <i>(CPSA USA Steven A. Hofstadler Graduate Student Award, 2018)</i> <i>(ASMS Graduate Student Award, 2019)</i> <i>(CACA Student Excellence Awards in Chromatography, 2020)</i>	2015–2020
• Thesis: Defining the Human Heart Proteoform Landscape with Top-down Proteomics; Ph.D., Aug. 2020		
• Current Position: Program Director, National Academy of Sciences, Bethesda, MD		
Zhijie (Abe) Wu, PhD	University of Rochester, B.S., Chemistry ChemBio graduate program <i>(Robert C. Doban Mentoring Award, 2019)</i>	2015–2020
• Thesis: Investigation on Phosphoproteins and Their Regulators by Top-down Mass Spectrometry and Bioinformatics; Ph.D., Aug. 2020		
• Current Position: Principal Scientist, Regeneron Pharmaceuticals (2020-present)		
Samantha Knott, PhD	Lawrence University, B.S., Biochemistry ChemBio graduate program <i>(National Science Foundation Pre-doc Fellowship)</i>	2016–2021
• Thesis: Development of Mass Spectrometry Based Proteomic Approaches for the Study of Diseased Tissues; Ph.D., Aug. 2021		
• Current Position: Scientist at Enveda Biosciences		
Timothy N.T. Tiambeng, PhD	University of California, Irvine, B.S., Chemistry ChemBio graduate program <i>(UW-Chemical Biology Interface Training Program Pre-doc Fellowship)</i> (Joint supervision with Prof. Song Jin)	2016–2022
• Thesis: Nanoproteomics-enabled strategies for the analysis of cardiac troponin; Ph.D., Jan. 2021		
• Current Position: Research Scientist at Regeneron		
Jake Melby, PhD	University of Pittsburgh B.S., Chemistry Analytical chemistry graduate program <i>(The UW Cardiovascular Research Center's Training Program in Translational Cardiovascular Science (TPTCS) Pre-doc Fellowship)</i> <i>(CACA Student Excellence Awards in Chromatography, 2021)</i> <i>(Gary Parr Memorial Award from the Department of Chemistry, 2022)</i> <i>(2022 ASMS Graduate Student Award)</i>	2018–2023
• Thesis: Novel Strategies to Address the Challenge of Sensitivity in Top-down Proteomics, Ph.D., Apr. 2023		
• Current Position: Senior Scientist at AstraZeneca		
David Roberts, PhD	University of California at San Diego, B.S., Chemistry and Mathematics Materials chemistry graduate program (Joint supervision with Prof. Song Jin) <i>(American Heart Association Pre-doc Fellowship)</i> <i>(Gary Parr Memorial Award from the Department of Chemistry, 2021)</i>	2017–2023

- (US HUPO 2021 Trainee Award)
- (2021 ASMS Graduate Student Award)
- (UW-Madison, CVRC Summit poster award, 2021)
- (Human Proteome Organization (HUPO) Travel Award, 2022)
- (Drs. Igor and Albena Ivanisevic Dissertator Award, 2023)

- Thesis: Defining the molecular landscape of low-abundance protein biomarkers by top-down proteomics and nanotechnology; Ph.D., May 2023
- Current Position: Postdoc fellow with Carolyn Bertozzi at Stanford University

- Thesis: Mass Spectrometry-Based Omics Technologies: the Enabling Force for Precision Medicine Ph.D., July 2023
- Current Position: Scientist at Merck Boston site

Eli Larson, PhD Gustavus Adolphus College 2018–2023
B.A., Chemistry
Analytical chemistry graduate program
(CACA Student Excellence Awards in Chromatography, 2022)
(CPSA USA Steven A. Hofstadler Graduate Student Award, 2023)
(Gary Parr Memorial Award from the Department of Chemistry, 2023)

- Thesis: New Front-End Separation Approaches for Top-Down Proteomics, Ph.D., July 2023
- Current Position: Scientist at Merck Boston New Jersey Site

Ben Wancewicz University of California, Davis
B.S., biochemistry and molecular biology 2018–2024
Cellular and Molecular Pathology graduate program
(NIH NRSA F31 Pre-doc fellowship)

- Thesis: Development and Application of Mass Spectrometry-based Metabolomics for Characterization of Type 2 Diabetes and Diabetic Cardiomyopathy, Ph.D., May 2024
- Current Position: Scientist at AstraZeneca

Timothy Aballo University of Rhode Island B.S. Biological Sciences and Pharmaceutical Sciences 2019–2024
Molecular and cellular pharmacology training program
(UW-Molecular and Cellular Pharmacology Training Program Pre-doc Fellowship)
(NIH NRSA F31 Pre-doc fellowship)
(CPSA USA Steven A. Hofstadler Graduate Student Award, 2024)

- Thesis: Integrated Proteomics to Probe Cardiac Development and Regeneration
- Current Position: Research Scientist at Abbyie, Inc.

Emily Chapman Augsburg University
B.S. Chemistry, Minor Biology 2020–2025

Analytical chemistry graduate program
(UW-Chemical Biology Interface Training Program Pre-doc Fellowship)
(UW-Madison Cline Fellowship)
(2024 ASMS Graduate Student Award)
(Gary Parr Memorial Award from the Department of Chemistry, 2024)

- Thesis: Top-Down Proteomics Strategies for the Characterization of Endogenous Cardiac Proteins and Protein Complexes
- Current Position: Scientist III, Discovery Analytical Chemistry at Arrowhead Pharmaceuticals.

Emily Reasoner	Luther College B.S. Chemistry Materials chemistry graduate program (Joint supervision with Prof. Song Jin)	2019–2025
Kalina Reese	Galvin University B.S. Biochemistry (Honors), BA Vocal Music Molecular and cellular pharmacology training program <u>(National Science Foundation Pre-doc Fellowship)</u>	2020–2025

- Thesis: Nanomaterials-Enabled Strategies for the Enrichment of Low-Abundance Proteins
- Current Position: Materials scientist at Teleflex

Former Co-mentoring Graduate Students

Lichen Xiu, PhD (Primary PI: Song Jin)	Fudan University, B.S. Chemistry Materials Chemistry	2012–2018
Morgan Mann, PhD (Primary PI: Allan Brasier)	University of Oklahoma, B.S. Biochemistry Cellular and Molecular Pharmacology training program	2018–2023

- Thesis: Development of new materials and chromatographic methods for top-down proteomics
- Current position: Scientist II at Absci, Inc.

- Thesis: Mechanisms of BRD4-mediated Innate Immune Activation in the Airway Epithelium
- Current position: Postdoctoral fellow at Stanford University

Former M.D. Students

Moltu Guy, MD	Marquette University; B.S. Mathematics	2006–2011
• Thesis: The Impact of Antibody Selection on Cardiac Troponin I Detection, M.D., July 2011		
• Current position: Anesthesiologist, ASMG, San Diego, California (2015– present)		
	<i>(Shapiro Summer Fellowship)</i>	
Max Wrobbel, MD	Class of 2020 B.S. Pharmacology & Toxicology, Biology, UW-Madison, MD 2021	2017-2020
	<i>(Shapiro Summer Fellowship)</i>	
• Current position: Radiology Resident at Johns Hopkins University Medicine		
Daniel Belongia, MD	Class of 2020, B.S. Engineering Mechanics & Astronautics UW-Madison, MD 2021	2017-2020
	<i>(Shapiro Summer Fellowship)</i>	
• Current position: Anesthesiology Resident at UW-Madison School of Medicine and Public Health		
Will Swain, MD	Class of 2022, B.S. Biomedical Engineering,	

U. Michigan
UW-Madison, MD 2022
(*Shapiro Summer Fellowship*) 2018-2022

- Current position: Resident at Mayo Cline

Yang Hu, MD PhD California Institute of Technology, B.S. Biology 2014-2018
Medical scientist training program (MSTP, MD/PhD program,
PhD with Mark Burkard)

- Current position: Resident at Stanford University

Scott Price UW-Oshkosh, BS Biology. 2022-2025
UW-Madison, MD 2025
(*Shapiro Summer Fellowship*)

- Current position: Resident at UW Health

Former Postdoctoral Fellows

Han Zhang, PhD University of Arizona; Ph.D., Chemistry 2009-2011
• *Current position: Chief Technology Officer, Mainline Scientific*

Xin Chen, PhD Brigham Young University, Ph.D., Chemistry 2010-2012
• *Current position: Principal Scientist at Invenra*

Santosh Valeja, PhD Florida State University, Ph.D., Chemistry 2013-2014
• *Current position: Associate Director, Biocon*

Ying (Lynn) Peng, PhD Brigham Young University, Ph.D., Chemistry 2011-2014
• *Current position: Senior Scientist at Arrowhead Pharmaceuticals*

Yinghua (Edith) Chang, PhD National Cheng Kung University; Ph.D., Biology 2012- 2014
• *Current position: Associate Director, Klus Pharma.*

Leekyoung Hwang, PhD University of Pittsburgh, PhD. Chemistry 2012-2016
• *Current position: Scientist at Mirus Bio LLC.*

Serife Ayaz-Guner, PhD University of Wisconsin-Madison, Ph.D. Biology 2014-2015
• *Current position: Assistant Professor of Abdullah Gul University in Turkey*

Tania Maria Guardado, PhD University of California, Los Angeles, PhD. Chemistry 2014-2016
(NIH NRSA Post-doc fellowship)
• *Current position: Quality Assurance Engineer at Blue Origin*

Ziqing Lin, PhD Purdue University, West Lafayette, PhD. Bioengineering 2015-2018
• *Current position: Principal Scientist in Bristol-Myers Squibb (BMS)*

Yanlong Zhu, PhD Wayne State University, PhD. Analytical Chemistry 2018-2019
(ASMS Postdoctoral Career Development Award)
• *Current position: Staff scientist and facility manager in UW Human Proteomics Program Mass Spectrometry facility*

Melissa Pergande, PhD University of Illinois-Chicago, PhD. Chemistry 2022-2024
(ASMS Postdoctoral Career Development Award)
(*The UW Cardiovascular Research Center's Training Program in Translational Cardiovascular Science (TPTCS) Post-doc Fellowship*)
• *Current position: Assistant Professor of Chemistry at Boston University*

Former Assistant Scientist

Wei Guo, PhD Beijing Agricultural University; Ph.D., Biology 2013
 • *Current position: Assistant Professor at University of Wisconsin-Madison, Department of Animal Sciences*

Former Research Specialist

Fangmin Xu, MS Florida State University; M.S., Chemistry 2010
 • *Current position: Scientist at Novartis*

Former Software Developer

Kent Wenger UW-Madison, B.S. Computer Science 2018-2022
 (Retired)

Former Technical Staff in the Human Proteomics Facility under Ge's supervision

Matt Lawrence	University of Wisconsin- River Falls, B.S. Biochemistry	2007–2015
Huseyin Guner	Middle East Technical University B.S. Physics	2008–2015
Qingge (Lisa) Xu	Heibei University; M.S, Chemistry	2008-2018

Former Visiting Scholars

Liming Wei, PhD	Fudan University, Shanghai, China, PhD. Chemistry	2015-2016
	• <i>Current Position: Senior Engineer at Fudan University</i>	
Fang Guo, MD	Shandong Provincial Hospital, P. R. China, MD	2016-2017
	• <i>Current Position: Deputy Chief Cardiologist</i>	
Ruixiang Sun, PhD	Institute of Computing Technology, Chinese Academy of Sciences	2016-2017
	• <i>Current Position: Associate Professor at National Institutes of Biological Sciences</i>	
Yu Liang, PhD	Chinese Academy of Sciences, PhD. Analytical Chemistry Dalian Institute of Chemical Physics,	2017-2018
	• <i>Current Position: Associate Professor at Dalian Institute of Chemical Physics</i>	

Former M.S. Students

Yi-chen (Ivy) Chen	U. of Wisconsin-Madison; M.S., Chemistry Chemistry graduate program	2011–2014
	• <i>Current position: Principle Scientific Researcher at Genentech.</i>	
Stanford Mitchell	University of Wisconsin, Eau Claire, B.S. Biochemistry and Molecular Biology Molecular and cellular pharmacology training program (UW-Molecular and Cellular Pharmacology Training Program Pre-doc Fellowship)	2017–2019
	• <i>Current position: Assistant Manager, St. Vincent de Paul, Madison, WI</i>	
Austin Carr	University of Tulsa B.S., Biochemistry ChemBio graduate program	2018–2020
	• <i>Current position: Research Scientist I, Magnet Biomedicine</i>	
David Moreno	California State University B.S. Chemistry Organic chemistry graduate program	2019–2022

Former Undergraduate Students (47 total; *current position indicated if known*)

Nathan Klapoetke	B.S. UW-Madison <i>PhD, MIT</i> <i>Current position: Research Scientist at HHMI Janelia Campus</i>	2007-2008
Cory Nelson	B.S. UW-Madison <i>PhD, Columbia University</i> <i>Current Position: Scientist in eLutions Integrated Systems, Inc.</i>	2007-2009
Lin Li	B.S. UW-Madison <i>Current position: Engineer at Kraft Foods Group</i>	2008- 2009
Xintong Dong	B.S. UW-Madison, <i>Assistant Professor at UT Dallas</i> <i>(Hilldale research Fellowship)</i> <i>(Mary Shine Peterson Undergraduate Award)</i> <i>Current Position: Assistant Professor at UT Dallas</i>	2008-2010
Yi-Chen (Ivy) Chen	B.S. UW-Madison <i>M.S. UW-Madison</i> <i>Current Position: Scientist at Genetech</i>	2009-2011
Daniel Ziebell	B.S. UW-Madison <i>M.D. UW-Madison</i> <i>Current Position: Assistant Professor of Pediatrics, University of Utah</i>	2009-2010
Laura Clinton	B.S. UW-Madison	2009-2010
Karin Lea Rasmussen	B.S. UW-Madison	2009-2010
Haoyue (Ray) Zhu	B.S. UW-Madison, Graduate school at Penn State University	2009-2010
Ryan Nie	B.S. UW-Madison, programmer at Liberty Mutual	2012
Patrick Close	B.S. UW-Madison, Freelance program developer	2012-2013
Bradley Bartel	B.S. UW-Madison	2013
Catherine Tuanqui	B.S. UW-Madison	2013
Yina Cai	B.S. UW-Madison	2013-2014
Wenxuan Cai	B.S. Hong Kong University of Science and Technology (exchange undergraduate student)	2013
Albert Chen	B.S. UW-Madison <i>PhD, PharmD UW-Madison</i> <i>Current position: Commercial Lending Analyst at Wells Fargo</i>	2009-2011 2010-2015
Ryan Lee	B.S. UW-Madison	2014-2015
Christopher Tatsuguchi	B.S. UW-Madison	2014-2015
Justin Doop	B.S. UW-Madison	2014-2016
Rachel Heuer	B.S. UW-Madison <u><i>(Theodore Herfurth Sophomore Scholarship)</i></u>	2014-2017
Zachery Hites	B.S. UW-Madison	2015-2018
William Ochowicz	B.S. UW-Madison	2015-2018
Kunal Dani	B.S. UW-Madison	2015-2017
Cyrus Colah	<i>Current position: PhD student at Georgia Institute of Technology</i> <i>(Hilldale Research Fellowship)</i>	2015-2018

	<i>Current position: Resident Physician at New York Presbyterian - Columbia</i>	
Hannah Karp	B.S. Biochemistry major; UW-Madison <u>(Hilldale Research Fellowship)</u> <u>(Mary Shine Peterson Undergraduate Award)</u>	2016-2019
Paige Pistono	Graduate student at UC Berkeley B.S. Biochemistry major; UW-Madison <u>(Biochemistry Undergraduate Summer Research Scholarship)</u>	2016-2019
Sudharshan Ramanathan	Graduate student at UC Berkeley B.S. Computer Science major, UW-Madison	2016-2019
Yiran Yan	B.S. Biology major, UW-Madison	2017-2020
Molly Wetzel	B.S. Biochemistry major, UW-Madison	2018-2019
Christian Eken	Senior, Biology major, UW-Madison	2018-2020
Chance Lee Wilkinson-Johnson	BS, Chemistry, UW-Madison (Currently in Chemistry Bridge graduate program at UW-Madison)	2018-2020
Kristen Andrea	BS, Neurobiology and economics	2019-2020
Cruz Apolinario	Senior, Molecular Biology major, UW-Madison <u>(Hilldale Research Fellowship)</u>	2018-2021
Andreas Kyrvasilis	Currently MD student at Johns Hopkins University	
Morgan Gugger	BS, Chemistry, UW-Madison, <i>Wisconsin ACS Local Section Undergraduate Award for Excellence in Chemistry</i> <u>(Hilldale Research Fellowship)</u> <i>Karen M. Telander Undergraduate Research Award</i> <i>Currently PhD student at University of Illinois at Urbana-Champaign</i>	2018-present
Daniel Kim	BS, Chemical Engineering <i>Currently graduate student at Georgia Institute of Technology</i> NSF	2019-2022
Harini Josyer	BS, Biomedical Engineering	2019-2021
Anna Janicek	BS, Chemistry, UW-Madison	2019-2021
Zhuoxin Shi	Junior, Biochemistry and Statistics	2020-2023
Bridget Knight	(Currently in Chemistry graduate program at UW-Madison) Senior, Chemistry and Economics <u>(Eugene and Patricia Kreger Herscher Scholarship)</u>	2021-2023
Lauren Ehlers	Sophomore, Chemistry	2021-2023
Diana Garcia	Junior, Human Development and Family Studies	2021-2023
Brad Li	Senior, Biochemistry, Spanish <u>(Hilldale Research Fellowship)</u> <u>(ASMS Undergrad Award)</u> <u>(Mary Shine Peterson Undergraduate award)</u>	2020-2024
Emilia Lois Nicometo	Current position: MD Student at Vanderbilt University	
Kylie Plouff	Sophomore, Chemistry <u>(Hilldale Research Fellowship)</u> <u>(Honors Sophomore Research Fellowship)</u>	2023-2024 2021-2025
Boqian (Jason) Zhang	Junior, Genetics (Currently in Chemistry graduate program at Georgia Tech)	2023-2025