

Benjamin Rush

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EDUCATION

Ph.D.	Nutritional Sciences University of Wisconsin- Madison	2022
M.P.H	Epidemiology Indiana University- Bloomington	2015
B.S., B.S.	Biology, Neuroscience Indiana University- Bloomington	2013

APPOINTMENTS

Postdoctoral Research Assistant, Lab of John Garrett University of Wisconsin-Madison	2024-Present
Postdoctoral Research Associate, Labs of Claudia Solis-Lemus & John Garrett University of Wisconsin-Madison	2023- 2024
Scientist, Lab of Adam Kuchnia University of Wisconsin-Madison	2022- 2022
Statistical Consulting, Lab of Alfonso Morales University of Wisconsin- Madison	2019-2021
Graduate Research Assistant, Lab of Adam Kuchnia University of Wisconsin- Madison	2019-2022
Personal Chef, Chefs for Seniors Madison, Wisconsin	2017-2018

Health and Wellness Coordinator, Boys and Girls Club Oshkosh, Wisconsin	2016-2017
Farm to School AmeriCorps Member, AmeriCorps & Winnebago County Health Dept. Oshkosh, Wisconsin	2016-2017
Alternative Classroom Experience Counselor, AmeriCorps & Pfeifer Kiwanis Camp Little Rock, Arkansas	2015-2016
Statistical Consulting, Lab of Lucia Guerra-Reyes Indiana University-Bloomington	2015
Research, Education, and Policy Intern, Department of Epidemiology and Biostatistics Indiana University-Bloomington	2015
Graduate Research Assistant, Lab of M. Aaron Sayegh Indiana University-Bloomington	2014-2015

MENTORSHIP

Graduate Students Mentored

Lauren Clark Current Nutritional Sciences Doctoral Student, University of Wisconsin-Madison	2021- 2023
Israel Rodriguez Current Healthcare Data Analyst at IEHP	2014-2015
Emily Abruzzi Current Senior Research and Evaluation Associate at Ripple Effect	2014-2015

Undergraduate Students Mentored

Yunju Ha Current Statistics Major, University of Wisconsin-Madison	2023-Present
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Lakes Tang Current Computer Sciences Major, University of Wisconsin-Madison	2023-2024
Sujay Garlapati Current Biology Major, University of Wisconsin-Madison	2021-2022
Arden He Current Fellow at MIT Blueprint Labs	2020-2021
Olivia Rossman Current Food Science Major, University of Wisconsin-Madison	2020-2021
Hunter Weber Current Biology and Environmental Sciences Major, University of Wisconsin-Madison	2019-2020

COMMUNITY ENGAGEMENT

Machine Learning + X Leadership Committee Wisconsin Institute of Discovery, University of Wisconsin-Madison	2023-Present
Founding Member, Justice, Equity, Diversity, and Inclusion Committee Department of Nutritional Sciences, University of Wisconsin- Madison	2020-2022
Council Member, Madison Food Policy Council Madison, Wisconsin	2019-2021
Vice President, Rotaract of Oshkosh	2016-2017

TEACHING EXPERIENCE

Instructor, Improv for STEMM (graduate and professional level)	2023
Department of Medicine, University of Wisconsin- Madison	
Co-instructor, Improv for Scientists with Amy Zelenski (graduate level)	2022
Department of Medicine, University of Wisconsin- Madison	
Co-instructor, Improv for Health Professionals with Amy Zelenski (professional level)	2021
Department of Medicine, University of Wisconsin- Madison	
Food Policy Instructor, Food and Culture Special Topics Course (undergraduate level)	2019
Department of Medicine, University of Wisconsin- Madison	
Statistics and Coding Instructor, Lab of M. Aaron Sayegh (graduate level)	2014-2015
Department of Epidemiology and Biostatistics, Indiana University- Bloomington	
Teaching Assistant, Integrative Human Physiology (undergraduate level)	2012-2013
Department of Human Biology, Indiana University- Bloomington	

SCIENCE COMMUNICATION & MEDIA EXPERIENCE

Science and Art AI Morphs Exhibit	2024
Founder and CEO of Deeper Than Data Media	2020-Present
Host and Producer, Deeper Than Data Podcast (link)	2020-2023
Host and Producer, Badger Talks Podcast (link)	2021-2023
President, Neuroscience Club at Indiana University-Bloomington	2011-2013

HONORS AND AWARDS

Open Science Grid selected scholar, Open Science Grid User School Madison, Wisconsin	2023
Honorary associate in the Department of Surgery School of Medicine and Public Health, University of Wisconsin- Madison	2021-2024
Graduate Engaged Scholar Nomination by Graduate Program Coordinator Department of Nutritional Sciences, University of Wisconsin- Madison	2021
Undergraduate Mentorship Award Nomination by Prof. Adam Kuchnia Department of Nutritional Sciences, University of Wisconsin- Madison	2020
Hattie B. Goessling Nutritional Science Scholarship Department of Nutritional Sciences, University of Wisconsin- Madison	2020
Hattie B. Goessling Nutritional Science Scholarship Department of Nutritional Sciences, University of Wisconsin- Madison	2019
Ruth and Carl Miller Academic Merit Award Department of Nutritional Sciences, University of Wisconsin- Madison	2019

PROFESSIONAL SOCIETIES

American Physiological Society

American Society for Bone and Mineral Research

American Association for the Advancement of Science

American Public Health Association

National Science Policy Network

PUBLICATIONS

Lortie, J., **Rush, B.**, Gage, Gr., Dhingra, R., Hetzel, S., Pickhardt, P., Szczykutowicz, T., Kuchnia, A. Correcting Posterior Paraspinal Muscle Computed Tomography Density for Intravenous Contrast Material Independent of Sex and Vascular Phase, *Journal of Thoracic Imaging*, 2023.

Lortie, J., Gage, G., **Rush, B.**, Heymsfield, S., Szczykutowicz, T., and Kuchnia, A. The effect of computed tomography parameters on sarcopenia and myosteatosis assessment: a scoping review. *Journal of Cachexia, Sarcopenia and Muscle*, 2022.

Lortie, J. *, **Rush, B.***, Osterbauer, K., et al. Myosteatosis as a Shared Biomarker for Sarcopenia and Cachexia Using MRI and Ultrasound. *Frontiers in Rehabilitation Sciences*, 2022.

* Co-first authorship

Rush, B., Binkley, N., Kruger, D., et al. Combination of DXA and BIS predicts jump power better than traditional measures of sarcopenia. *Journal of Bone Mineral Research Plus*, 2021.

Guerra-Reyes, L., **Rush, B.**, Herbenick, D. et al. Sexual Health and Language Dominance Among Hispanic/Latino Women and Men: Analysis of a Nationally Representative Sample. *Journal of Immigrant Minority Health*, 2016.

PEER REVIEW

NPJ Oncology
International Society for Computational Biology
Osteoporosis International
Journal of Food Science
Gerontology

PRESENTATIONS

Invited Presentations

“Something's funny: humor for better communication and teamwork in science” 2023

Plant Pathology JEDI seminar, University of Wisconsin, Madison

Moderator for closing panel 2024

Research Bazaar, University of Wisconsin, Madison

“AI for Scientists” Workshop 2024

Research Bazaar, University of Wisconsin, Madison

“The SciComm Generator” from Deeper Than Data Media 2024

1 Million Cups invited presenter, Starting Block, Madison

“Science communication + GPT: Strategies for open and empathetic science communication” 2023

Machine Learning + X Forum, University of Wisconsin- Madison

“An introduction to strategic science communication” 2023

Illinois Institute of Technology

“Something's funny: humor for better communication, teamwork and ideas in science” 2023

Illinois Institute of Technology

“An introduction to strategic science communication” 2023

Asa Gray Biological Society, Utica University

Emcee and facilitator 2023

Wisconsin Institute of Discovery Annual Symposium

“That was funny: humor for building trust, creativity, and fun” 2023

International Conference for Association for Experiential Education

Mastering Science Communication: Insider Trips and Best Practices for Success 2023

Midwest Big Data Hub's Data Science Student Groups Webinar Series

Humor and Science Workshop 2023
Wisconsin Institute for Discovery

Exercising Interpersonal Agility to Foster Belonging and Empathy Workshop 2023
Teaching and Learning Symposium

The Deeper than Data Media Story 2023
University of Wisconsin-Madison Podcasters Group

“Podcasting in the classroom” Workshop 2022
American Physiological Association- Institute on Teaching and Learning

“Improv for Wild-lifers” 2021
The Wildlife Society Annual Conference

“Do financial incentives increase fruit and vegetable consumption and diet quality?” 2019
Catalyst for Science Policy, University of Wisconsin-Madison

“Understanding multi-level linear modeling”, Infectious Disease Epidemiology 2015
Department of Epidemiology and Biostatistics, Indiana University- Bloomington

“An introduction to meta-analyses”, Integrative Human Physiology, 2014
Department of Human Biology, Indiana University- Bloomington

Peer Reviewed Conference Presentations

“Predicting muscle function from body composition using machine learning” 2024
Research Bazaar, University of Wisconsin, Madison

"Utilizing Large Volume CT Data to Uncover Trends In Radiology Resource Utilization and Survival in Socioeconomically Disadvantaged Patients"	2024
American Roentgen Ray Society, Boston, Massachusetts	
"Predicting muscle function from body composition using machine learning"	2023
Skeletal Muscle Symposium, University of Wisconsin, Madison	
"Fat segmentation by deep learning-based model faster and preferred without reducing predictive capabilities"	2023
Midwest Machine Learning Symposium, Chicago, Illinois	
"Determining Biomarkers of Myosteatosis for Sarcopenia and Cachexia Using MRI and Ultrasound"	2022
Experimental Biology Conference, Philadelphia, Pennsylvania	
"Establishing imaging biomarkers of myosteatosis"	2021
Skeletal Muscle Network Symposium, University of Wisconsin-Madison	
"Correcting for subcutaneous adipose tissue marginally improves the association between ultrasound echo intensity and magnetic resonance proton density fat fraction"	2021
International Conference for Frailty and Sarcopenia Research	
"The combination of DXA and BIS to predict jump power"	2020
Annual Nutritional Sciences Poster Presentation, University of Wisconsin-Madison	
"Novel muscle measurement methods to improve muscle health assessment throughout the aging process"	2019
Colloquium on Aging, University of Wisconsin-Madison	
"Validating the association between the DXA and BIS combination and physical function to improve the diagnosis of sarcopenia"	2019
Annual Nutritional Sciences Poster Presentation, University of Wisconsin-Madison	
"Orgasm as a function of sexual repertoire complexity and consistency"	2014
Society for the Scientific Study of Sex Annual Conference, Omaha, Nebraska	