

College of Arts and Sciences

First Name	Last Name	Title	Department	Research Focus
Eric	Sandvol	Professor 10 Months	Earth Science	Eric Sandvol is earthquake seismologist who works on imaging the interior of the Earth and on earthquake hazards. His research has largely focused on characterizing crustal and upper mantle seismic velocity structure of mountain belts in order to understand how they are built. As a part of this work he has lead seismic deployments on three different continents including in Tibet, Northern China, Turkey, Chile, and Argentina. Recently he has also worked on measuring the seismic structure of the Central United States including recent work on high frequency wave attenuation.
Regina	Hurley	Assistant Professor 10	Philosophy	I study applied ontology and epistemology.
Sojung	Lim	Associate Professor 10	Sociology	I will join UB as the Korea Foundation Professor of Korean Studies and an Associate Professor in the Department of Sociology and Criminology. My research focuses on family demography in East Asia, work-family dynamics in the United States, and Asian American studies, with a particular emphasis on demographic change in South Korea.



2025 New Faculty Research Profiles

Jamir Marino Assistant Professor 10 Physics

I am a theoretical physicist working on non-equilibrium quantum many body systems. I worked for 6 years as assistant professor in Mainz, Germany, and moving to UB to continue my research.

Jin Hee Yoo History Assistant Professor 10 History

Genie Yoo is a historian of Southeast Asia, working at the intersection of history of science, medicine, Islam, and environment. Her current project focuses on European and Indigenous understandings of the natural world in the spice islands of Indonesia.

Graduate School of Education

First Name	Last Name	Title	Department	Research Focus
Fenice	Boyd	Professor 10 Months	Learning & Instruction	<p>My research and instructional foci center on literacy, teacher education, politics and policies. Specifically, I am interested in adolescents who find traditional reading and writing in school communities challenging and not interesting. I explore how the curriculum is limited in its representation of people, socioeconomics, and society in general.</p> <p>Additionally, my research and instruction center on how the status quo capitalizes on the reading and writing challenges of underserved and under-represented schools, students, teachers and communities. In other words, literacy and politics go hand in hand, particularly when there is profited to be had. This is an interesting topic to explore especially when claims are made about how certain programs will increase and enhance the reading and writing test scores of certain students.</p>
Christopher	Brown	Professor 10 Months	Learning & Instruction	<p>I am the new Associate Dean for Teacher Education in the GSE and a full professor in the Department of Learning and Instruction.</p>



2025 New Faculty Research Profiles

Ryan	Creps	Assistant Professor 10	Educational Leadership & Policy	<p>I study trends in postsecondary enrollment, practices in college admission, and policies that affect the two. I started my career as a college admission officer and I've work as a college counselor. Working closely with students, families, and institutions gave me a unique perspective on how policies and practices shape access to higher education. This motivated me to explore these issues more deeply, with the goal of informing policies and institutional strategies that promote fairness, transparency, and opportunity for all students.</p>
Rubén	González	Assistant Professor 10	Learning & Instruction	<p>I am interested in how students and teachers of color develop, sustain, and enact a critical sociopolitical disposition in classroom, school, and broader community settings.</p>
Phoebe	Ho	Assistant Professor 10	Educational Leadership & Policy	<p>My work examines contemporary social inequalities as illuminated through the experiences of racial and ethnic minority and immigrant youth and their families; particularly how early educational inequalities lead to disparate outcomes across the life course. I've taught courses on the sociology of education, race and ethnicity, immigration, childhood and adolescence.</p>
Yilang	Zhao	Assistant Professor 10	Counseling, School, & Educational Psychology	<p>My primary research focus is educational data science. Specifically, I am interested in developing new computational research methods based on data science techniques as well as implementing accessible data science education programs that can benefit kids from diverse backgrounds. As for my teaching, I will be teaching a quantitative research method course and a learning analytics programming course.</p>

Jacobs School of Medicine & Biomedical Sciences

First Name	Last Name	Title	Department	Research Focus
Sarah	Bowman	Associate Professor Health Sciences	Biochemistry	My research expertise is in using structural, biochemical, and biophysical methods to probe biomolecular structure. In the Bowman Group, our research focus is two-fold. First, we are developing new methods to crystallize biomolecules, as well as to detect and handle micro- and nanocrystals, for cutting-edge structural techniques, with an ultimate goal to probe how conformational changes mediate function. The techniques we use include electron diffraction methods using Cryo-EM and X-ray diffraction methods using synchrotrons and X-ray Free Electron Lasers. Second, we are investigating metalloprotein structure, function, and dynamics, using structural and spectroscopic approaches to examine the ways metals impact and modulate function of these proteins.
Heather	Gardiner	Professor Health Sciences	Family Medicine	I direct the Community Health Equity Research Institute for UB, which is charged with supporting and growing community engaged, health equity research for the university. My own research aims to improve organ and tissue donation processes in the United States, increase the number of organs and tissues available for transplantation, and improve parity in access to kidney transplants for minoritized, stigmatized or underserved populations. I have expertise in interpersonal health communication, mixed methods and community engaged research, and health equity. I am also a UB alumni (2002, 2004, 2006)!



2025 New Faculty Research Profiles

Benny	Joyner	Professor & Chair	Pediatrics	School of medicine, dept of pediatrics. simulation and resuscitation and inter professional education.
Xiaoxia	Liu	Associate Professor Health Sciences	Biomedical Informatics Department	My research focuses on developing computational and explainable AI methods for high dimensional omics, biological network, and clinical data to uncover disease mechanisms and advance precision medicine.
Shengtian	Sang	Assistant Professor Health Sciences	Biomedical Informatics Department	My research area is biomedical AI, which is focused on proposing AI methods to help clinicians for diagnosing.

School of Architecture & Planning

First Name	Last Name	Title	Department	Research Focus
Maia	Peck	Clinical Assistant Professor 10	Architecture	Clinical Assistant Professor in the Department of Architecture. Co-founder of the multidisciplinary design firm Serweta Peck. I teach undergraduate and graduate architecture studios and digital media.



School of Dental Medicine

First Name	Last Name	Title	Department	Research Focus
Carla	Alvarez Rivas	Assistant Professor Health Sciences	Department of Oral Biology	I'm a new assistant professor at the oral biology department. My research focuses on mucosal immunology, particularly on T cell memory in the oral cavity.
Renatto	Casarin	Assistant Professor Health Sciences	Periodontics & Endodontics	I seek a career as a professor and researcher that unites the society's demands with the development of better diagnostic and treatment techniques. The position of an educator in the health field is not limited to technical knowledge; rather, it involves developing a future generation of professionals with technical skills and the sensitivity to recognize the needs of the population and strive to improve their quality of life. This three-pronged approach is achieved through the union of academia, research, and willpower. In this sense, my pursuit is to understand the etiology of oral diseases and their impact on systemic health, the development of diseases, and how family care can promote, from childhood, better health conditions in adulthood. Through knowledge of microbiology and immunology, I aim to determine at-risk populations to pursue effective health promotion policies.
Brett	Chiquet	Professor (Health Sciences)	Department of Pediatric & Community Dentistry	I am the new Chair of the Department of Pediatric and Community Dentistry – my focus is on building the academic, clinical programs within the department. My research focus centers around patients safety and creating a multidisciplinary approach to treating patients with craniofacial anomalies.



2025 New Faculty Research Profiles

Cui	Cui	Assistant Professor Health Sciences	Department of Restorative Dentistry	Clinical and research interests include implant dentistry, prosthodontic rehabilitation, and dental materials.
Grace	De Souza	Professor (Health Sciences)	Department of Restorative Dentistry	My research is geared towards understanding the degradation of dental materials in the oral environment. I am currently focused on developing a model to reproduce the damage caused by bulimia nervosa in vitro.
Michael	Lynch	Clinical Associate Professor Health Science	Department of Periodontics & Endodontics	Primary activity is being on the clinic floor with dental students and leading/attending some post-grad seminars. Will start directing periodontics concentration (minors) program in the fall. Some consulting work and planning to start faculty practice. May also pick up some lecture responsibilities.
Amrit	Mir	Clinical Assistant Professor Health Science	Department of Oral Diagnostic Sciences	My name is Amrit Mir and I did my Masters and Residency from the University at Buffalo's Orofacial Pain program. My clinical and academic training has focused on the diagnosis and management of Oro facial pain, temporomandibular joint disorders, and related head and neck conditions. I'm passionate about delivering patient-centered, evidence-based care, and I aim to contribute to the field through continued learning, clinical excellence, and interdisciplinary collaboration.



2025 New Faculty Research Profiles

Vinicius	Rizzo Marques	Assistant Professor Health Sciences	Department of Restorative Dentistry	My research and instructional focus lies in digital dentistry, prosthodontics, and implantology. I am particularly interested in the application of CAD/CAM technologies, 3D printing, and artificial intelligence to enhance clinical workflows and dental education. I also mentor students and residents in research projects involving dental materials, guided implant surgery, and digital workflows.
Ashleigh	Robinson	Clinical Assistant Professor Health Sciences	Oral Diagnostic Sciences	Special Needs Dentistry
Harim	Tavares dos Santos	Assistant Professor Health Sciences	Department of Oral Biology	I work with salivary gland biology.
Thalita	Vieira e Oliveira	Clinical Assistant Professor Health Sciences	Department of Oral & Maxillofacial Surgery	As a clinical assistant, my teaching will focus not only on surgical techniques, but also on seeing patients as a whole, using a humanized approach.



School of Engineering & Applied Sciences

First Name	Last Name	Title	Department	Research Focus
Charlie	Carlson	Assistant Professor 10	Computer Science & Engineering	I have worked across various areas of theoretical computer science and mathematics. My current research interests are primarily in randomness, approximation algorithms, and spectral graph theory. In particular, I am focused on developing new techniques for analyzing Markov chains and designing approximation algorithms for fairness-inspired variants of classical graph problems, such as the S-T cut.
Justin	Del Vecchio	Lecturer 10	Artificial Intelligence & Data Sciences	I am Teaching Faculty in the Institute for Artificial Intelligence and Data Sciences. I am extremely excited to teach students about machine learning, data intensive computing, and how these technologies are applied in Industry.
Harrison	Goldstein	Assistant Professor	Computer Science & Engineering	I am a computer scientist researching ways to help software engineers write better and more correct code. I investigate topics like software testing, formal software verification, and human-computer interaction.



2025 New Faculty Research Profiles

Grigorios	Lavrentiadis	Assistant Professor 10	Civil, Structural & Environmental Engineering	My research focuses on risk and hazard assessment for natural disasters. I am passionate about teaching courses on soil behavior and its impact on the urban environment, as well as exploring how big data and machine learning can be leveraged to improve these models.
Kinga	Ludwig	Lecturer 10	Engineering Education	My instructional focus within the Department of Engineering Education focuses on technical communication and writing in the STEM and engineering fields. My research interests include twentieth and twenty-first century speculative and science fiction, intersections of literature with science and technology, ecocriticism, and urban theory. My dissertation is an interdisciplinary exploration of imagined future cities in a diverse selection of post- 2000 texts, and more recent research focuses on reclaiming of Indigenous voices in apocalyptic futures of contemporary Native American literatures.
Jiayu	Peng	Assistant Professor 10	Materials Design & Innovation	Combining data science and machine learning with materials physics and surface chemistry to design materials for chemical transformation and energy technologies.
Ganesh	Sivaraman	Assistant Professor 10	Materials Design & Innovation	Tenure track assistant professor in computational material science / AI



2025 New Faculty Research Profiles

School of Law

First Name	Last Name	Title	Department	Research Focus
Lauren	Wilson	Visiting Associate Professor 10 Months	Law School	I write and teach in the areas of intellectual property and property law. I'm particularly interested in interactions between social and legal conceptions of authorship and ownership in creative media. I'm a music theorist in addition to a lawyer, and most of my research so far has focused on interdisciplinary approaches to music copyright.

School of Management

First Name	Last Name	Title	Department	Research Focus
John	Hennessy	Clinical Assistant Professor 10	Marketing	Integrate my over 30 years of sales, marketing and market research experience into the marketing curriculum to help students see effective and less effective marketing approaches. This experience includes consumer research, personalized marketing, marketing to launch startups and growth marketing for both private companies and multi-national public companies.
Daniel	Liebel	Clinical Assistant Professor 10	Organization & Human Resources	My focus is introduction to business for freshmen students.
Parshan	Pakiman	Assistant Professor 10	Department of Operations Management & Strategy	I investigate operations management problems in which emerging business constraints and real-world considerations necessitate developing new solution techniques. My research advances such solutions by combining Optimization and Artificial Intelligence (AI) methods for problems such as dynamic operating room scheduling and dynamic pricing in brick-and- mortar retail.
Artem	Streltsov	Assistant Professor 10	Finance	My research focuses on Financial Technology (FinTech). I develop novel algorithms easing market frictions and also study the economics of cryptocurrencies. I am also more broadly interested in questions in market microstructure and corporate finance.



2025 New Faculty Research Profiles

School of Nursing

First Name	Last Name	Title	Department	Research Focus
Misol	Kwon	Assistant Professor	School of Nursing	Research: sleep and circadian health, cardiovascular health outcomes in cancer survivors.
Emily	Vezina	Clinical Assistant Professor Health Science	School of Nursing	I am teaching in the UG nursing school and simulation lab.

School of Pharmacy & Pharmaceutical Sciences

First Name	Last Name	Title	Department	Research Focus
Drew	Lambert	Clinical Assistant Professor 12	Pharmacy	For research, I am looking to characterize drug interactions among HIV drugs and polyvalent cations in the inpatient setting. I am also interested in conflicts of interest among authors of practice guidelines. On the instructional side, I focus on active learning for pharmacy students, as well as experiential education as I have a practice site at ECMC.
Anne	Talkington	Assistant Professor 12	School of Pharmacy & Pharmaceutical Sciences	The Talkington Lab lies at the interface of modeling, optimization, and therapeutic development. We integrate mathematical modeling and simulation with experimental data to predict optimal treatment strategies, from the perspective of both drug activity and drug delivery. While our current focus areas are cancer and immunology, our methods are broadly applicable across systems.

School of Public Health & Health Professions

First Name	Last Name	Title	Department	Research Focus
Michael	Cammarata	Clinical Assistant Professor 10	Rehabilitation Science	Michael Cammarata, PhD, is an occupational therapist, researcher, and educator with more than 18 years of clinical experience in stroke and neurological rehabilitation. He is joining the University at Buffalo as a Clinical Assistant Professor in the Occupational Therapy program. His research focuses on post-stroke driving rehabilitation and the use of assistive technology to support complex daily occupations and community participation for individuals recovering from stroke and other neurological conditions.
Karen	Craik	Clinical Assistant Professor	Epidemiology & Environmental Health	My research and instructional focus centers on the intersection of public health policy, healthcare systems, and the social determinants of health, with an emphasis on advancing equity-driven policy solutions. I examine how structural and systemic factors influence health outcomes and work to inform policies that reduce disparities across communities.
Robyn	Cree	Clinical Assistant Professor	Epidemiology & Environmental Health	My research focuses on advancing health equity for children and individuals with disabilities, with expertise in mental health, public health surveillance, and the impact of public health emergencies on people with disabilities. Most recently I served as an epidemiologist in the US Centers for Disease Control and Prevention's National Center on Birth Defects and Developmental Disabilities and I am excited for my new role teaching and supporting MPH students in the department of Epidemiology and Environmental Health.



2025 New Faculty Research Profiles

Jaye	Derrick	Associate Professor 12	Community Health and Health Behavior	My primary research areas include (1) the need to belong and loneliness; (2) the influence of close relationship functioning on substance use; (3) the influence of substance use on close relationship functioning and intimate partner aggression; and (4) ambulatory assessment (e.g., daily diary, EMA, wearables) research methods.
Kyler	Knapp	Assistant Professor 12	Community Health and Health Behavior	My research examines the dynamic intra- individual processes that contribute to well- being and positive health behavior change among individuals in recovery from alcohol use disorder and/or other substance use disorders using advanced quantitative methods and ambulatory technology (e.g., ecological momentary assessment [EMA]).
Joshua	Miller	Assistant Professor Health Sciences	Epidemiology and Environmental Health	Josh joined the Department of Epidemiology and Environmental Health in 2025 as a member of the Center for Climate Change and Health Equity. His research examines how individuals perceive, experience, and respond to environmental challenges and resource insecurities, and how these dynamics affect nutrition, mental health, and chronic disease risk across the life course. His current work includes developing globally comparable, user-centered tools that assess water, sanitation, and hygiene (WASH) accessibility and sufficiency in households, schools, and health care facilities.
Kristen	Morgus	Clinical Assistant Professor 10	Rehabilitation Science	Instructional focus: Occupational Development Across the Lifespan, Educational Evaluation and Intervention (focus on development and school based occupational therapy) research focus: school-based OT and leadership and advocacy, perceived stress of OT students, autism and sensory processing in various contexts (i.e., dentistry, swim lessons, school).

2025 New Faculty Research Profiles

Christopher	Perry	Clinical Assistant Professor 10	Exercise and Nutrition Sciences	I investigate the interplay of sleep, sedentary behavior, and physical activity in optimizing health outcomes, human performance, and psychological adherence to healthy behaviors among tactical populations, athletes, and college students. My research also explores the evolution of pedagogical and coaching strategies in the era of AI to foster soft skills, leadership development, and long-term engagement in health and fitness industries.
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School of Social Work

First Name	Last Name	Title	Department	Research Focus
Robyn	Wiktorski-Reynolds	Clinical Assistant Professor 10	School of Social Work	My social work experience of 25 years includes Macro/mezzo/micro roles. I am deep experience in non profit organizational leadership; working in the domestic violence and sexual violence space; trauma informed leadership; supervision; development of programs.