



COLORADO SCHOOL OF MINES
EARTH • ENERGY • ENVIRONMENT



NEW FACULTY FUN BIOS

2022-2023

Getting to know you!



COLORADO SCHOOL OF
MINES

Braelin Pantel

Vice President of Student Life



Where are you from, originally?

- Lyme, New Hampshire

Where were you educated?

- BS, Psychology Union College (NY)
- MA, Higher Education Administration, University of Denver
- PhD, Higher Education and Student Affairs Leadership, University of Northern Colorado

What are some of your most significant work experiences?

- AVP for Student Engagement & Wellness/Dean of Students at Metropolitan State University of Denver
- Dean of Students, Rocky Mt. College of Art & Design

What do you love to teach?

- N/A—fun fact: I've never taught a single course (but very much appreciate those who do teach)!

What research topics most interest you?

- Campus environments and relationship to student success
- Body size stigma and how it manifests in post-secondary settings

What is your most significant publication?

Olson, K., Pantel, B., Pendley, M., & Sellers, L. (2004). *Campus conversations: A book of questions for college students*. Rocky Mountain Press.

What are you passionate about beyond your professional interests?

- Being a mom (two girls- ages 4 & 8)
- Vegetarian cooking

What is the most unusual place you've ever traveled?

- Hmm... lots of little middle of nowhere towns. I've been to every state except Alaska. Remote parts of northern Maine may be the most unusual as I suspect not many other people at Mines have been there.

Where is the best place you've ever visited?

- Vieques, Puerto Rico

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Calligraphy/artsy lettering
- Become fluent in a language other than English (so much for Latin as a high school language)
- Hike the Appalachian Trail

Tell us something unique about yourself that few people know.

- I have my motorcycle license

Jason Slowinski

*Associate Vice President,
Infrastructure & Operations*



Where are you from, originally?

- Wisconsin, U.S.A.

Where were you educated?

- Bachelor of Business Administration, University of Wisconsin-Milwaukee
- Graduate Studies in Public Administration, Northern Illinois University
- Juris Doctor, University of Illinois-Chicago School of Law

What are some of your most significant work experiences?

- Newspaper Delivery (first job), *Marshfield News-Herald*
- City Manager, City of Golden (2015-2022)

What research topics most interest you?

- Genealogy

What are you passionate about beyond your professional interests?

- Art
- Gardening
- Hiking
- Fishing
- Golf/ Basketball
- Fast cars
- Family
- Shopping
- Travel (Road Trips!)

What is the most unusual place you've ever traveled?

- Pyramids and ancient ruins of Teotihuacan, Mexico & Palacio de Quetzalpapalotl

Where is the best place you've ever visited?

- Favorite City: New York, NY
- Favorite Resort: Garza Blanca, Puerto Vallarta, Mexico
- Place that keeps me coming back over and over: the Pacific Coast

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Professional Artist
- Theater/Acting

Tell us something unique about yourself that few people know.

I'm schooled in the art of calligraphy, I've officiated high school and college basketball for almost 20 years, and can tackle just about any home remodeling job.

Andrew Moore

Chief Information Officer



Where are you from, originally?

- San Francisco Bay Area

Where were you educated?

- B.S. in Computer Science, Minor in Sociology, California State University, East Bay
- MBA, University of Colorado

What are some of your most significant work experiences?

- Software Development Manager, Chevron
- Sr Director of the Project Management Office, Sun Microsystems
- Mayor, Town of Erie
- CIO, Boulder Valley School District

What topic most interests you?

- Ensuring every student has an equitable opportunity to learn and that technology is not a roadblock by ensuring each has a computer and adequate internet at all times

What are you passionate about beyond your professional interests?

- Quality time with my wife
- Mountain Biking
- DIYer – Home Improvement
- Lake Fishing
- Snowshoeing
- Puppy sitting for Guide Dog for the Blind raisers
- Supporting my comp-sci enabled kids!
- Being there for my 93-year-old memory-care housed mom



What is the most interesting place you've ever traveled?

- Rural India 2 hours outside of Bangalore to study how tech was used in schools

Where is the best place you've ever visited?

- St Thomas, US Virgin Islands

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Learning to play the Piano

Tell us something unique about yourself that few people know.

- I found a brother I never knew I had through 23andMe!

Thomas Albrecht-Schoenart

Chemistry



Where are you from, originally?

- Hershey, PA

Where were you educated?

- B.S. in Chemistry, Southwest Minnesota State University
- MS and PhD, Chemistry, Northwestern University

What are some of your most significant work experiences?

- Director of the Center for Actinide Science and Technology, a Department of Energy, Energy Frontier Research Center
- Leader of a large, international team studying the chemistry and physics of the heaviest elements

What do you love to teach?

- General Chemistry
- Heavy Elements Chemistry

What research topics most interest you?

- Relativistic Effects in Heavy Elements
- Crystallography
- Making molecules that you shouldn't be able to make

What is your most significant publication?

M. J. Polinski, E. B. Garner III, R. Maurice, N. Planas, J. T. Stritzinger, T. G. Parker, T. D. Green, E. V. Alekseev, S. M. Van Cleve, W. Depmeier, L. Gagliardi, M. Shatruk, K. L. Knappenberger, G. Liu, S. Skanthakumar, L. Soderholm, D. A. Dixon, T. E. Albrecht-Schönart, "Unusual Structure, Properties, and Bonding in a Californium Borate," *Nature Chemistry*, **2014**, *6*, 387-392. DOI: 10.1038/nchem.1896

What are you passionate about beyond your professional interests?

- Hiking
- Wildlife, especially birds
- Fishing
- Kayaking
- Art, especially paintings
- My extraordinary wife

What is the most unusual place you've ever traveled?

- Cloud Forests, Costa Rica

Where is the best place you've ever visited?

- Kōkeʻe State Park, Kauai, Hawaii

What new thing do you aspire to learn or pursue "someday" when you get the time?

- The German Language

Tell us something unique about yourself that few people know.

- I've lived in Marburg, Germany

Harry Archer

University Honors & Scholars

Humanities, Arts & Social Sciences



Where are you from, originally?

- Brighton, United Kingdom

Where were you educated?

- B. A., Politics, University of Exeter
- M. A., Communication, University of Colorado Denver
- Ph.D., University of Colorado Boulder

What are some of your most significant work experiences?

- Helping build Leadership by Design as an adjunct at Mines
- Professional Writing Consultant, Mines Writing Center

What do you love to teach?

- Leadership by Design
- Environmental Communication

What research topics most interest you?

- Social and Cultural Effects of Infrastructure
- Rhetorical Invention in STEM

What is your most significant publication?

Archer, H. "Traveling the A-Line: A Rhetorical Journey from the City." In W. Atkins-Sayres and A. Quesinberry Stokes (Eds.), *City Places, Country Spaces: Rhetorical Explorations of the Urban/Rural Divide* (New York: Peter Lang, 2019).

What are you passionate about beyond your professional interests?

- Playing good games of bad tennis
- Trivia
- Weekends away

What is the most unusual place you've ever traveled?

- Olomouc, Czech Republic: home to a disco in a decommissioned Aeroflot passenger jet

Where is the best place you've ever visited?

- Florence, Italy

What new thing do you aspire to learn or pursue "someday" when you get the time?

- To get better at swimming

Tell us something unique about yourself that few people know.

- I do not like tea, even though I am from Britain

Parisa Bazazi

Petroleum Engineering



Where are you from, originally?

- Iran

Where were you educated?

- B.S. in Petroleum Engineering, University of Tehran, Iran
- MS and PhD, Chemical and Petroleum Engineering, University of Calgary, Canada

What are some of your most significant work experiences?

- Teaching classes and designing workshops
- Supervising lab activities
- Being TA for first year design class

What do you love to teach?

- Transport phenomena
- Surface Science

What research topics most interest you?

- Emulsions/Foams
- Wetting dynamics
- Interfacial rheology
- Hydrogen storage and transport
- Transport in porous media

What is your most significant publication?

Parisa Bazazi, Howard. A Stone, and S. Hossein Hejazi. "Spongy all-in-liquid materials by in-situ formation of emulsions at oil-water interfaces." *Nature Communications* (2022).

What are you passionate about beyond your professional interests?

- Running/walking
- Travelling
- Spending time with family and friends
- Cooking/Baking

What is the most unusual place you've ever traveled?

- Niagara Falls, Ontario, Canada

Where is the best place you've ever visited?

- Keukenhof, Botanical Garden in Lisse, Netherlands

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Playing Piano

Tell us something unique about yourself that few people know.

- I have to multitask to focus

Nicole Becwar

Arthur Lakes Library



Where are you from, originally?

- Tucson, AZ

Where were you educated?

- B.A., Creative Writing and Women's Studies, University of Arizona
- M.A., Information Resources and Library Science, University of Arizona

What are some of your most significant work experiences?

- Board Preservation Member-at- Large, Society of Rocky Mountain Archivists
- Chair, Privacy Security and Accessibility Committee, Marmot Library Network

What do you love to teach?

- Primary source literacy

What research topics most interest you?

- Diverse and inclusive metadata practices
- Impact of metadata on research methods

What is your most significant publication?

Bennett, K. L., & Becwar, N. (2020). What Works in Honors: Discovering "London as a Detective Story." *Honors in Practice*

What are you passionate about beyond your professional interests?

- Family
- Hiking
- Running
- Biking
- Reading

What is the most unusual place you've ever traveled?

- The National Archives, London, UK

Where is the best place you've ever visited?

- The Colorado Trail

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Meditation

Tell us something unique about yourself that few people know.

- When my children were young, we rode bikes for 5 years to reduce our carbon footprint.

Aram Bingham

Applied Mathematics & Statistics



Where are you from, originally?

- Philadelphia, PA/Vermont

Where were you educated?

- B.A. in Math & Economics, McGill University
- M.S. in Mathematics, University of New Orleans
- Ph.D., Mathematics, Tulane University

What are some of your most significant work experiences?

- DGAPA Postdoctoral Fellow, Centro de Ciencias Matemáticas, Universidad Nacional Autónoma de México, Campus Morelia

What do you love to teach?

- Discrete Mathematics
- Number theory
- Introductory Probability

What research topics most interest you?

- Algebraic combinatorics
- Geometric complexity theory
- Number theory

What is your most significant publication?

Bingham, Aram; Can, Mahir Bilen; Ozan, Yildiray. "A filtration on equivariant Borel-Moore homology." *Forum Math. Sigma* 7 (2019), Paper No. e18, 13 pp.

What are you passionate about beyond your professional interests?

- Cooking
- Growing herbs and edible plants
- Mechanicking
- Playing soccer, recently
- Social and environmental justice

What is the most unusual place you've ever traveled?

- Armenia

Where is the best place you've ever visited?

- Lake Titicaca, Peru-Bolivia

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Chemistry

Tell us something unique about yourself that few people know.

- I thought I wanted to be a writer of some kind when I was in high school.

Mathias Burisch-Hassel

Geology & Geological Engineering



Where are you from, originally?

- Waldkirch, SW Germany

Where were you educated?

- BSc and MSc, University of Freiburg, Germany
- PhD, University of Tuebingen, Germany

What are some of your most significant work experiences?

- Head of the Mineral Systems Analysis Group, TU Bergakademie Freiberg, Germany
- Assistant Professor, TU Bergakademie Freiberg, Germany

What do you love to teach?

- Mineral resources
- Fluids in the Earth's crust
- Field schools and field trips

What research topics most interest you?

- Genesis of hydrothermal mineral systems
- Ore-forming processes from nm to km scale

What is your most significant publication?

Burisch, M., Markl, G., and Gutzmer, J., 2022, Breakup with benefits - hydrothermal mineral systems related to the disintegration of a supercontinent: Earth and Planetary Science Letters

What are you passionate about beyond your professional interests?

- Cooking
- Rock climbing
- Running
- Mountaineering

What is the most unusual place you've ever traveled?

- Gunung Raung Volcano, Indonesia

Where is the best place you've ever visited?

- Prague, Czech Republic

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Beekeeping

Tell us something unique about yourself that few people know.

- I have financed my graduate and undergraduate studies working as a bouncer in a disco.

Tolga Can

Computer Science



Where are you from, originally?

- Ankara, Turkiye

Where were you educated?

- B.S. in Computer Engineering, Middle East Technical University, Ankara, Turkiye
- MS and PhD, Computer Science, University of California at Santa Barbara

What are some of your most significant work experiences?

- Faculty member, Department of Computer Science, Middle East Technical University, Ankara, Turkiye
- Academic Committee Chair, Informatics Olympiads: Selection and training of the Turkish team for the IOI.

What do you love to teach?

- Bioinformatics
- Algorithms

What research topics most interest you?

- Computational Systems Biology
- Graph Theory
- Structural Bioinformatics

What is your most significant publication?

Macropol, K., Can, T. & Singh, A.K. RRW: repeated random walks on genome-scale protein networks for local cluster discovery. BMC Bioinformatics 10, 283 (2009). <https://doi.org/10.1186/1471-2105-10-283>

What are you passionate about beyond your professional interests?

- Electric Bass
- Basketball
- Reading
- Hiking
- Running
- Being a father to two boys and two cats

What is the most unusual place you've ever traveled?

- Natal, Brazil

Where is the best place you've ever visited?

- Big Island, Hawaii

What new thing do you aspire to learn or pursue "someday" when you get the time?

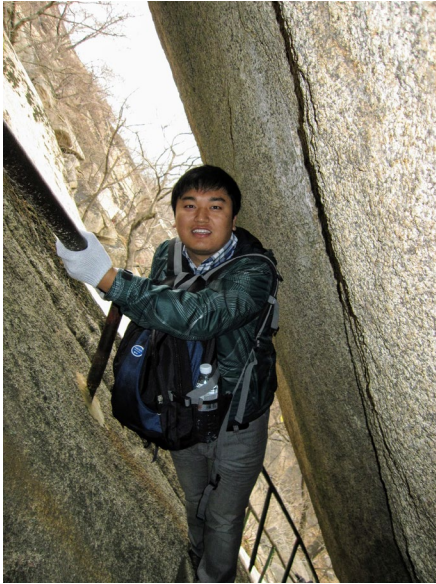
- Playing drums

Tell us something unique about yourself that few people know.

- I have been participating in CodeForces competitions as a medium-level competitive programmer (max rating: "specialist").

Dong Chen

Computer Science



Where are you from, originally?

- Anshan, China

Where were you educated?

- B.S. in CS, NUDT, China
- MS/PhD in CS, Northeastern University, China
- PhD in ECE, UMass Amherst

What are some of your most significant work experiences?

- Assistant Professor, CS@Mines
- Assistant Professor, CS@FIU

What do you love to teach?

- Operating Systems
- Distributed Systems
- Machine Learning

What research topics most interest you?

- CPS/IoT Cybersecurity & Privacy Improving Systems
- Peer-to-Peer Energy Trading

- Tiny Machine Learning

What is your most significant publication?

Keyang Yu, Qi Li, Dong Chen, Mohammad Rahman, and Shiqiang Wang. 2021. "PrivacyGuard: Enhancing Smart Home User Privacy". In Proceedings of *the 20th International Conference on Information Processing in Sensor Networks (CPS-IoT Week 2021) (IPSN '21)*. Association for Computing Machinery, New York, USA, 62–76.

What are you passionate about beyond your professional interests?

- Trumpet
- Fishing
- Cooking
- Hiking
- Being a father

What is the most unusual place you've ever traveled?

- Mattawa, Canada

Where is the best place you've ever visited?

- Amherst, MA

What new thing do you aspire to learn or pursue "someday" when you get the time?

- More advanced skiing
- Snowman Expert

Tell us something unique about yourself that few people know.

- I was a VERY slim person when I was working for Toshiba Solution.

Matthew Crane

Chemical & Biological Engineering



Where are you from, originally?

- Atlanta, GA

Where were you educated?

- B.S. in Chemical Engineering, Georgia Institute of Technology
- MS and PhD in Chemical Engineering, University of Washington
- Postdoc, Department of Chemistry, University of Washington

What are some of your most significant work experiences?

- Co-Founder, Chief Science Officer, BlueDot Photonics
- Washington Research Foundation Postdoctoral Fellow, Chemistry Department
- Director of Academic Advancement, MRSEC Center, University of Washington

What do you love to teach?

- Heat and mass transfer
- Optics and nanomaterials

What research topics most interest you?

- Sustainability and energy
- Collective optical phenomena

What is your most significant publication?

M. J. Crane, A. Petrone, R. A. Beck, M.B. Lim, X. Zhou, X. Li, R. M. Stroud, P. J. Pauzauskie. "High pressure, high temperature molecular nanodiamond doping." *Sci. Adv.* 5, eaau6073 (2019)

What are you passionate about beyond your professional interests?

- Music
- Hiking
- Backpacking
- Board games
- Bridge (yes, the ancient card game)
- Being a cat dad

What is the most unusual place you've ever traveled?

- Camp Muir, Mt. Rainier, WA

Where is the best place you've ever visited?

- Florence, Italy

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Glassblowing and sculpture

Tell us something unique about yourself that few people know.

- I recorded an album the week that I defended my PhD
- I was born Joe Hunter Crane III but my parents renamed me Matthew Crane three days later

Brian Donovan

Mechanical Engineering



Where are you from, originally?

- Buffalo, NY

Where were you educated?

- B.S. in Chemistry, Canisius College
- PhD, Polymer Science and Engineering, Univ. of Southern Mississippi

What are some of your most significant work experiences?

- Senior Research Scientist, Materials Additive Manufacturing Team, Carbon 3D
- Research Faculty, Dept. of Chemical and Biological Engineering, University of Colorado Boulder

What do you love to teach?

- Applied Polymer Science
- Additive Manufacturing
- Demos of all kinds

What research topics most interest you?

- High-performance materials manufacturing
- Plastics recycling

What is your most significant publication?

Donovan, B. R.; Matavulj, V. M.; Ahn, S; Guin, T; White, T. J. "All-optical control of shape" *Adv. Mater.* 2019, 1805750.

What are you passionate about beyond your professional interests?

- Hiking
- Skiing
- Traveling
- Food. All food.
- The Buffalo Bills
- My family

What is the most unusual place you've ever traveled?

- Dayton, OH

Where is the best place you've ever visited?

- The Amalfi Coast

What new thing do you aspire to learn or pursue "someday" when you get the time?

- I'd like to learn Italian

Tell us something unique about yourself that few people know.

- I have hiked the tallest peak in the lower 48.

Adam Duran

Mechanical Engineering



Where are you from, originally?

- Littleton, CO

Where were you educated?

- B.S., M.S. in Engineering, Colorado School of Mines
- M.S. ETM, Colorado School of Mines

What are some of your most significant work experiences?

- Senior Research Engineer, NREL
- Program Manager and Co-Director of GameChanger Powered by NREL (GCxN) Cleantech Accelerator, NREL
- Senior Consultant, QS-2

What do you love to teach?

- Automotive Engineering
- Systems Engineering
- Engineering Design

What research topics most interest you?

- Powertrain and System Design
- Automotive Suspensions
- Transportation Data Science
- Entrepreneurship

What is your most significant publication?

Duran, A. and Earleywine, M., "GPS Data Filtration Method for Drive Cycle Analysis Applications," SAE Technical Paper 2012-01-0743, 2012, doi:10.4271/2012-01-0743

What are you passionate about beyond your professional interests?

- Rock Climbing
- Smoking/BBQ Meat
- Motorcycles and mechanic work
- Carpentry and DIY
- Pastels and Charcoal Art
- Being a "Funcle"

What is the most unusual place you've ever traveled?

- Capuchin Crypt - Rome, Italy

Where is the best place you've ever visited?

- Mürren, Switzerland

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Piano

Tell us something unique about yourself that few people know.

- I broke my nose playing club Rugby in college

Heather Fester

Humanities, Arts & Social Sciences



Where are you from, originally?

- Jefferson City, Missouri

Where were you educated?

- B.S. in English, Truman State University, Kirksville, MO
- MA and Ph.D. in Rhetoric and Writing, Bowling Green State University, BG, Ohio (2009)
- MFA in Creative Writing and Poetics, Naropa University, Boulder, CO (2017)

What are some of your most significant work experiences?

- Director of the Center for Writing and Scholarship, California Institute of Integral Studies, San Francisco, CA
- Coordinator of Writing Across the Curriculum and First-Year Writing at Lincoln University of Missouri, an historically black and open admissions institution
- Coordinator of the Creative Writing minor at University of Colorado, Colorado Springs

What do you love to teach?

- Extreme Rhetoric
- Documentary Poetics
- Creative Nonfiction
- Advanced Rhetoric & Writing
- Ethics
- New courses I'll develop at Mines of course. 😊

What research topics most interest you?

- Hybrid Discourse
- Creative Writing and Contemplative Pedagogies
- Rhetoric of Ideologies
- Scholarship of Administration
- Creative work

What is your most significant publication?

Fester, Heather. "Transparency as a Defense-Less Act: Shining Light on Emerging Ideologies in an Activist Writing and Research Course." *On Teacher Neutrality: Politics, Praxis, Performativity*, edited by Daniel P. Richards, Utah State University Press, 2020.

What are you passionate about beyond your professional interests?

- Hiking
- Yoga
- Running
- Coaching (growth- and development-oriented)
- Consciousness Studies
- My Creative Nonfiction group
- Writing
- Attending readings and art events
- My cat Perry

What is the most unusual place you've ever traveled?

- I don't think I have an answer for this one or it's not coming to mind. I hope to do more travel though. And, I have a secret wish I had chosen to be an investigative journalist traveling to the front line to cover important stories. However, I don't have the constitution for it.

Where is the best place you've ever visited?

- Tours, France

What new thing do you aspire to learn or pursue "someday" when you get the time?

- I have a chapbook hybrid memoir that will be published by Untimely Books in the next year or so. I also have a book of essays in the works and a book of contemporary rhetorical theory that I'd like to finish.
- I'd like to do trainings on the method of focusing based on the work of Eugene Gendlin and in Theory U by Otto Scharmer, along with a few other modalities to support my work as a coach.
- I'd like to do more leadership training and possibly organizational development training for higher ed.
- Try new cooking-related things.
- Maybe improve my French. :-p

Tell us something unique about yourself that few people know.

- I interned at the Jim Henson Company in the motion picture and television division.

Laith Haddad

Physics



Where are you from, originally?

- Austin, Tx.

Where were you educated?

- MS, Physics, University of Colorado, Boulder.
- PhD, Applied Physics, Colorado School of Mines.

What are some of your most significant work experiences?

- Mentoring students through research projects.
- Serving on graduate thesis committees.

What do you love to teach?

- Mathematical Physics, Modern Physics, Statistical Mechanics.

What research topics most interest you?

- Quantum gravity,
- Factors that impact learning.

What is your most significant publication?

L.H. Haddad, L.D. Carr,
The nonlinear Dirac equation in Bose–Einstein condensates: Foundation and symmetries, Physica D: Nonlinear Phenomena, Volume 238, Issue 15, 2009

What are you passionate about beyond your professional interests?

- Camping and hiking
- Travelling
- Art

What is the most unusual place you've ever traveled?

- Djerba, Tunisia

Where is the best place you've ever visited?

- Taos, NM

What new thing do you aspire to learn or pursue "someday" when you get the time?

- More travel and travel writing

Tell us something unique about yourself that few people know.

- I taught Tai chi and meditation (before they were cool)

Qiaohai (Joice) Hu

Economics and Business



Where are you from, originally?

- Zhejiang, China

Where were you educated?

- MS and PhD, Operations Research/Management, Case Western Reserve University

What are some of your most significant work experiences?

- My former PhD student got promoted to Associate Professor long before me.

What do you love to teach?

- Supply chain analytics

What research topics most interest you?

- Supply chain management
- Decentralized finance—new interest

What is your most significant publication?

- Dada, M and Q. Hu (2008). Financing Newsvendor Inventory. *Operations Research Letters*, 36(5), 269-273.
- Hu, Q., L. Schwarz & N. Uhan (2012). The Impact of GPOs on Healthcare Product Supply Chains. *Manufacturing & Services Operations Management*, 14(1), 7-23.

What are you passionate about beyond your professional interests?

- Music & Art
- Hiking
- Reading about history and philosophy

What is the most unusual place you've ever traveled?

- Anatolian, Turkey

Where is the best place you've ever visited?

- Paris, France

What new thing do you aspire to learn or pursue "someday" when you get the time?

- A different lifestyle perhaps
- Write a memoir about the 1st half of my life

Tell us something unique about yourself that few people know.

- I tried being Amazon seller, but failed

Qihua Huang

Electrical Engineering



Where are you from, originally?

- Richland, WA

Where were you educated?

- B.E. and M.E in Electrical Engineering, South China University of Technology
- PhD, Electrical Engineering, Arizona State University

What are some of your most significant work experiences?

- PI, ARPA-E funded project of \$4.6M, with 15 project members
- Co-founder of Energy and Machine Learning interest group at PNNL of 150+ staff

What do you love to teach?

- Computational power system analysis
- Power system analysis

What research topics most interest you?

- Convergence of AI, physics, computing and control for power systems
- Power system stability and control

What is your most significant publication?

Q. Huang, V. Vittal. “Integrated transmission and distribution system power flow and dynamic simulation using mixed three-sequence/ three-phase modeling,” *IEEE Trans. on Power Systems*, vol. 32, no. 5, pp. 3704-3714, Sept. 2017.

What are you passionate about beyond your professional interests?

- Hiking
- Traveling
- Being a father

What is the most unusual place you’ve ever traveled?

- Whitesands National Park, New Mexico

Where is the best place you’ve ever visited?

- Yellowstone National Park

What new thing do you aspire to learn or pursue “someday” when you get the time?

- Diving

Tell us something unique about yourself that few people know.

- I walked to school everyday for 40 minutes one way until K-4.

Mona Jabbari

Economics and Business



Where are you from, originally?

- Hamadan, Iran

Where were you educated?

- BS & MS in Industrial Engineering, Bu-Ali Sina University, Iran
- PhD, Operations and Business Analytics, University of Oregon

What are some of your most significant work experiences?

- Assistant professor, Providence College School of Business

What do you love to teach?

- Business Analytics
- Operations Management

What research topics most interest you?

- Healthcare Analytics
- Supply Chain Management
- Predictive Analytics

What is your most significant publication?

“A Collaborative Decision Support System for Multi-criteria Automatic Clustering” with S. Sheikh, M. Rabiee, and A. Oztekin, Decision Support Systems, Vol:153, No.113671, 2022

What are you passionate about beyond your professional interests?

- Hiking
- Cooking
- Traveling

What is the most unusual place you’ve ever traveled?

- Antalya, Turkey

Where is the best place you’ve ever visited?

- Redwood National Park

What new thing do you aspire to learn or pursue “someday” when you get the time?

- Travel all around the world

Tell us something unique about yourself that few people know.

- I just got back from a month-long road trip across the United States.

Serveh Kamrava

Petroleum Engineering



Where are you from, originally?

- Kurdistan, Iran

Where were you educated?

- B.S. in Chemical Engineering, Sahand University of Technology
- MS in Safety Engineering, Texas A&M University
- PhD, Chemical Engineering, University of Southern California

What are some of your most significant work experiences?

- Chair of the social media task force, International Society for Porous Media,
- Editorial Board of Frontiers in Materials Journal.
- Graduate Committee, Chemical Engineering Department, University of Wyoming

What do you love to teach?

- Transport Phenomena
- Mathematical Methods in Engineering

What research topics most interest you?

- Machine Learning for Engineering problems
- Fluid Flow in Porous Media

What is your most significant publication?

Kamrava, Serveh, et. al. "Simulating fluid flow in complex porous materials by integrating the governing equations with deep-layered machines." Nature Computational Materials 7.1 (2021): 1-9.

What are you passionate about beyond your professional interests?

- Hiking
- Skiing
- Traveling

What is the most unusual place you've ever traveled?

- Barcelona, Spain

Where is the best place you've ever visited?

- Lauterbrunnen, Switzerland

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Playing a musical instrument

Tell us something unique about yourself that few people know.

- Unfortunately, I have no secrets!

Jihye Kim

Metallurgical & Materials Engineering



Where are you from, originally?

- Seoul, South Korea

Where were you educated?

- B.S. and MS in Energy Resources Engineering, Seoul National University
- PhD in Chemical Engineering and Applied Chemistry, University of Toronto

What are some of your most significant work experiences?

- Postdoctoral Fellow, Laboratory for Strategic Materials, University of Toronto
- Intern, Barrick Technology Centre, Barrick Gold Corporation
- Intern, Metal Extraction and Recycling Division, National Metallurgical Laboratory

What do you love to teach?

- Extractive Metallurgy
- Thermodynamics
- Inorganic Chemistry

What research topics most interest you?

- Critical Metals Extraction
- Mineral Carbonation
- Chemical and Process Modeling

What is your most significant publication?

Kim, J., Azimi, G., “Valorization of electric arc furnace slag via carbothermic reduction followed by acid baking – water leaching,” *Resources, Conservation & Recycling*, 173, 105710, 1–12 (2021).

What are you passionate about beyond your professional interests?

- Camping
- Hiking
- Fishing
- Traveling
- Cooking
- Video games

What is the most unusual place you’ve ever traveled?

- Sahara Desert, Morocco

Where is the best place you’ve ever visited?

- Spain

What new thing do you aspire to learn or pursue “someday” when you get the time?

- Indoor climbing

Tell us something unique about yourself that few people know.

- I have a sister 10 years younger than me

Ramya Kumar

Chemical & Biological Engineering



Where are you from, originally?

- Chennai, India.

Where were you educated?

- B.S. in Chemical Engineering, BITS Pilani
- MS and PhD, Chemical Engineering, University of Michigan, Ann Arbor

What are some of your most significant work experiences?

- Postdoc, University of Minnesota
- Process engineer, Dr. Reddy's Labs, India

What do you love to teach?

- Chemical & Engineering Thermodynamics
- Interfacial phenomena

What research topics most interest you?

- Polymer synthesis
- Protein behavior at synthetic interfaces
- Intracellular delivery

What is your most significant publication?

Efficient Polymer-Mediated Delivery of Gene-Editing Ribonucleoprotein Payloads through Combinatorial Design, Parallelized Experimentation, and Machine Learning. *ACS Nano* 2020, 14, 12, 17626–17639

What are you passionate about beyond your professional interests?

- Running
- Cricket
- Bread making
- Coffee brewing
- Reading for pleasure
- Meditation practices
- Spending time with my family

What is the most unusual place you've ever traveled?

- Mahabaleshwar, India

Where is the best place you've ever visited?

- Michigan's upper peninsula.

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Roasting my own coffee
- Learning to play the violin
- Triathlon

Tell us something unique about yourself that few people know.

- Despite growing up by the beach, I used to have a paralyzing fear of drowning. I taught myself to swim as an adult learner during the pandemic.

Jaeheon Lee

Mining Engineering



Where are you from, originally?

- Tucson, AZ, Salt Lake City, UT
- Denver, CO, Seoul, Korea

Where were you educated?

- BS MS, Metallurgical Engineering, Korea University
- PhD, Materials Sci. and Engr., University of Arizona

What are some of your most significant work experiences?

- Metallurgical Engineer and Project Engineer at Newmont and Barrick Gold
- Associate Prof in the Mining and Geological Engineering at University of Arizona

What do you love to teach?

- Extractive Metallurgy
- BioMining

What research topics most interest you?

- Green chemical for mineral processing and extractive metallurgy
- Microbiological treatment for improving metal extraction
- Tailings Repurposing
- Recycling metals

What is your most significant publication?

D. Shin, J. Park, H. Park, J. Lee, M. Kim, and J. Lee, 2019. " Key Microbes and Metabolic Potentials Contributing to Cyanide Biodegradation in Stirred-Tank Bioreactors Treating Gold Mining Effluent," *Min Proc and Extr Met Rev*, 41(2), 85-95.

What are you passionate about beyond your professional interests?

- Golf
- Skiing
- Basketball
- Family

What is the most unusual place you've ever traveled?

- Itapua do Oeste in the state of Rondonia, Brazil

Where is the best place you've ever visited?

- Seoul, Korea

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Spending more time with Family in Korea

Tell us something unique about yourself that few people know.

- I'm an avid golfer and had an Albatross (Double Eagle).

Eileen Martin

Geophysics

Applied Mathematics & Statistics



Where are you from, originally?

- Georgetown, TX

Where were you educated?

- B.S. in Mathematics, Computational Physics, University of Texas at Austin
- MS in Geophysics, Stanford
- PhD in Computational & Mathematical Engineering, Stanford

What are some of your most significant work experiences?

- Assistant Professor, Department of Mathematics, Division of Computational Modeling and Data Analytics, Virginia Tech

What do you love to teach?

- Introduction to high performance computing

What research topics most interest you?

- signal processing
- scalable algorithms for large data analysis
- scientific computing/ high-performance computing
- inverse problems
- seismology

What is your most significant publication?

Lindsey, N.J., Martin, E.R., Dreger, D.S., Freifeld, B., Cole, S., James, S.R., Biondi, B.L., Ajo-Franklin, J.B. (2017) "Fiber-optic network observations of earthquake wavefields," *Geophysical Research Letters*, 44(23), pp. 11792-11799.

What are you passionate about beyond your professional interests?

- Hiking
- My dog
- Gardening
- Playing volleyball

What is the most unusual place you've ever traveled?

- Portland, Oregon

Where is the best place you've ever visited?

- Vienna, Austria

What new thing do you aspire to learn or pursue "someday" when you get the time?

- travel more

Tell us something unique about yourself that few people know.

- I was on a kickball team that made it to the national championships in Las Vegas.

An Introduction to Daniel McKenzie

by: Daniel McKenzie

Applied Mathematics & Statistics



Where are you from, originally?

- East London, South Africa.
Also Cape Town, South Africa.

Where were you educated?

- B.Sc in Math + Applied Math, University of Cape Town.
- M.Sc in Math, University of Cape Town.
- PhD in Math, University of Georgia.

Most significant work experiences?

- Being a postdoc at UCLA was tough but rewarding!

What do you love to teach?

- Data Science.
- Computational Math, with an emphasis on efficient algorithms!

Most interesting research topics

- Signal processing.
- Machine Learning, esp. Learning to optimize.
- Probability, Percolation theory, and dimensionality reduction.

Most significant publication?

JFB: Jacobian-Free Backpropagation for Implicit Networks, Wu Fung, Heaton, Li, **McKenzie**, Osher, Yin. AAI 2022.

Interests Beyond Professional?

- Reading. I'm currently working through *War and Peace*.
- Hiking / being outside.
- Watching sports. Particularly American football, cricket, and chess.
- ~~Surfing~~ Snowboarding?
- My wife and son.

Most unusual place visited

- Enugu, Nigeria.
- Nacogdoches, Texas.
- Bayreuth, Germany.

Best place visited

- Zanzibar.
- Milos, Greece.

What to pursue "someday"?

- I'd like to become a better surfer.

Something few people know.

- I am technically a citizen of Ireland, although I have never been there.

Kara Metzger

Chemistry



Where are you from, originally?

- Hodgenville, KY

Where were you educated?

- B.S. in Biochemistry, Cumberland University
- PhD, Applied Chemistry, Colorado School of Mines

What are some of your most significant work experiences?

- Colorado Science and Engineering Policy Fellow for Senators Chris Hansen and Bob Rankin

What do you love to teach?

- Biochemistry
- Teaching Labs

What research topics most interest you?

- Hormone disruptors

What is your most significant publication?

Metzger, K. E.; Moyer, M. M.; Trewyn, B. G., Tandem Catalytic Systems Integrating Biocatalysts and Inorganic Catalysts Using Functionalized Porous Materials. *ACS Catal* 2020, *11*, 110-122.

What are you passionate about beyond your professional interests?

- Cooking
- Reading
- Spoiling nieces and nephews

What is the most unusual place you've ever traveled?

- Havana, Cuba

Where is the best place you've ever visited?

- Cape Town, South Africa

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Playing the accordion
- Sea turtle rescue

Tell us something unique about yourself that few people know.

- I was a part-time wedding planner throughout college.

Matthew (Matt) Morgan

Colorado Geological Survey



Where are you from, originally?

- Milwaukee, WI

Where were you educated?

- B.S., Geology, New Mexico Institute of Mining and Technology
- M.S., Geology, Colorado School of Mines

What are some of your most significant work experiences?

- Being Deputy Director and Manager of the Geologic Mapping program at Colorado Geological Survey
- Mapping the Alamo Impact Breccia in Nevada
- Trenching faults in Colorado
- Every time I am in the field solving geologic problems with our staff and students

What do you love to teach? (I do not formally teach)

- Field methods for geology
- Quaternary landscape evolution
- Anything about meteorites
- Principles of rocketry

What research topics most interest you?

- Geochronology and landscape evolution of Colorado
- Meteorites and impact craters
- Landslide and debris-flow hazards
- Paleoseismology

What is your most significant publication?

White, J.L., Morgan, M.L., and Berry, K.A., 2015, The West Salt Creek Landslide: A Catastrophic Rockslide and Rock/Debris Avalanche in Mesa County, Colorado: Colorado Geological Survey Bulletin 55.

What are you passionate about beyond your professional interests?

- Fly Fishing, being on water
- Baseball, hockey, golf
- Playing guitar
- Listening to music
- Hiking and camping
- Cooking, especially Mexican/New Mexican food
- Collecting meteorites and vintage baseball cards
- My family

What is the most unusual place you've ever traveled?

- Gutamala/Belize; Catacombs in Paris, France

Where is the best place you've ever visited?

- Paris, France; Kona, Hawaii; Krakow, Poland (sorry, hard to pick one!)

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Play a classical guitar
- Educate more kids about geology
- Be a grandparent

Tell us something unique about yourself that few people know.

- I have a collection of about 300 meteorites and 200 vintage baseball cards. I have a 2nd degree black belt in taekwondo.

Eve Mozur

Metallurgical & Materials Engineering

What research topics most interest you?

Multifunctional hybrid organic-inorganic materials
Developing materials for renewable energy technology

What is your most significant publication?

E. M. Mozur, J. R. Neilson. "Cation Dynamics in Hybrid Halide Perovskites" *Ann. Rev. Mat.* 2021, 51 (1) 269-291.

Where are you from, originally?

Danvers, MA (where the Salem Witch Trials happened)

Where were you educated?

B.A. in Chemistry, Reed College
PhD in Inorganic/Materials Chemistry, Colorado State University

What are some of your most significant work experiences?

- Organizer for Online Conference on Atomic-level characterization of hybrid perovskites (HPATOM2)
- President, Chemistry Graduate Student Organization

What do you love to teach?

- Anything about the structure and bonding of materials!
- Hands on, experiential courses
- Functional materials courses



What are you passionate about outside of professional interests?

- Backpacking
- Baking
- Reading
- Knitting
- Quality time with my husband and friends

Most unusual place that you've traveled?

- Split, Croatia

Best place you've visited?

- Sydney, Australia

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Fermentation! I briefly made my own kombucha, and I love making food and beverages from scratch

Something unique that few people know:

- I learned knit when I was five years old



Gary K. Nave, Jr.
Mechanical Engineering



Acadia National Park, Maine

Where are you from, originally?

- I grew up in Virginia, mostly in the Shenandoah Valley and Richmond

Where were you educated?

- BS 2012, PhD 2018
Engineering Mechanics
Virginia Tech

What are some of your most significant work experiences?

- 2020-2022: Postdoc Engineering Sciences and Applied Mathematics Northwestern University
- 2018-2020: Postdoc BioFrontiers Institute/Computer Science University of Colorado Boulder

What do you love to teach?

- Nonlinear dynamics
- Numerical methods
- Robotics

What research topics most interest you?

- Nonlinear dynamical systems
- Computational/theoretical models of biological systems
- Animal behavior
- Chronic pain

What is your most significant publication?

Nave Jr., G.K., Nolan, P.J. and Ross, S.D., 2019. Trajectory-free approximation of phase space structures using the trajectory divergence rate. *Nonlinear Dynamics*, 96(1), pp.685-702.

What are you passionate about beyond your professional interests?

- Being a dad
- Sports (soccer, football, college basketball, hockey)
- Hiking
- Cooking
- Music
- Travel (both within the US and internationally)

What is the most unusual place you've ever traveled?

- The Galapagos Islands (well, one of them – San Cristobal Island)

Where is the best place you've ever visited?

- Iceland – spent 25 hours there on the way to Europe

What new thing do you aspire to learn or pursue “someday” when you get the time?

- Photography and beer brewing are hobbies I've recently started to get into and I'd love to dive in more

Tell us something unique about yourself that few people know.

- I was a high school football referee for one season during grad school

Danielle Ostendorf

Arthur Lakes Library



Where are you from, originally?

- Central Minnesota, but have lived in Denver since 2018.

Where were you educated?

- B.S. Information Media & B.A. Humanities from St. Cloud State University (MN)
- Master of Library & Information Science (MLIS) from St. Catherine University (MN)

What are some of your most significant work experiences?

- E-resources Librarian at the University of Colorado Anschutz Medical Campus
- E-resources & Serials Librarian at the University of Minnesota Duluth

What research topics are you most interested in?

- Open Access
- Better, seamless access to library resources
- Providing library access to alumni

What are you passionate about beyond your professional interests?

- Cooking
- Traveling
- Strength Training
- Binge Watch TV Shows & Movies

What is the most unusual place you've traveled to?

- Kraków, Poland --- but I'm super grateful I got to go and would recommend it to anyone! Old European history at a reasonable Polish zloty price.

Where is the best place you've ever visited?

- Hawaii

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Refreshing my German language skills I've lost or learning to speak Spanish.



Kim Scott

Metallurgical & Materials Engineering



Where are you from, originally?

- Somerdale, NJ

Where were you educated?

- B.S. in Materials Science & Eng'g, Rutgers University
- MS and PhD, Materials Science & Eng'g, Rutgers University

What are some of your most significant work experiences?

- Coadjunct Teaching Professor, Intro to Engineering Reilly DELLC Women's Program, Rutgers University
- Lead Battery Engineer Research Associate, Rutgers University

What do you love to teach?

- Characterization of Materials
- Electrochemistry
- Renewable energy

What research topics most interest you?

- Surface modification for enhancing thin films
- Characterization methods
- Energy storage electrode development

What is your most significant publication?

Scott, K., Halajko, A., Amatucci, G. "The Fabrication of Freestanding Heterogeneous Copper-Tin Films with Meniscus Brush Plating Electrodeposition" JNMES, 18: 25-36, 2016

What are you passionate about beyond your professional interests?

- Field Hockey
- Snowboarding
- Hiking
- Traveling & experiencing different cultures
- Kayaking
- National Parks

What is the most unusual place you've ever traveled?

- Uluru, Australia

Where is the best place you've ever visited?

- Sydney, Australia

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Learn to play guitar

Tell us something unique about yourself that few people know.

- I am an international elite technical official representing USA Field Hockey in the International Federation of Hockey (FIH)

Michael Sheppard

Engineering, Design & Society



Where are you from, originally?

- All over the place:
TX, IL, CT, AL, VA, NC, FL, AZ

Where were you educated?

- B.S. in Biomedical Science, University of Lynchburg
- MBA, University of Alabama at Birmingham
- BSE & MSE in Mechanical Systems, PhD in Engineering Education Systems and Design, Arizona State University

What are some of your most significant work experiences?

- *Special Operations Combat Medic:*
Treating wounded men, women, and animals in the Middle East
- *Adjunct Faculty:*
Teaching STEM courses during a combat deployment

What do you love to teach?

- Use-Inspired Design
- Engineering Mechanics
- Finite Element Analysis
- Critical Inquiry in Engineering

What research topics most interest you?

- Empathetic design practices
- Promoting diversity and inclusion
- Utilizing asset-based frameworks

What is your most significant publication?

Exploring the Unique Skills and Challenges Veterans with Disabilities Bring to College: A Qualitative Study in Engineering.

What are you passionate about beyond your professional interests?

- Computer-Aided Design
- Obstacle Racing
- Hiking
- Cosplay Prop Design

What is the most unusual place you've ever traveled?

- Djibouti, Africa

Where is the best place you've ever visited?

- Cabin in Flagstaff, AZ

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Damascus bladesmithing

Tell us something unique about yourself that few people know.

- Given the opportunity to become a fictional character, my decision would be a toss-up between *Avatar: The Last Airbender's* Toph Beifong and *Gravity Falls' Stanford Pines*.

C. Estelle Smith

Computer Science



Where are you from, originally?

- Minneapolis, MN

Where were you educated?

- BA, English (Creative Writing), University of Minnesota (UMN)
- BS, Neuroscience, UMN
- MS, PhD, Computer Science, UMN
- Postdoc, University of Colorado Boulder, Information Science

What are some of your most significant work experiences?

- Three years at a variety of early stage Bay Area startups

What do you love to teach?

- Human-Centered Design of Sociotechnical Systems
- Algorithms & Data Structures
- Intro. Computer Science

What research topics most interest you?

- Computational spiritual and mental health support
- Online communities
- Value-sensitive and ethically designed AI/ML & Data Science

Most significant publication?

Smith, C. E., Kaur, A., Gach, K. Z., Terveen, L., Kreitzer, M. J., & O'Conner-Von, S. (2021). What is Spiritual Support and How Might It Impact the Design of Online Communities?. *Proceedings of the ACM on Human-Computer Interaction*, 5(CSCW1), 1-42.

Passions beyond profession?

- Rock climbing
- Yoga & spirituality
- Hiking, biking, skiing
- Singing, improv, theater
- My Siberian Husky, Zosima (a foster fail!), and fostering dogs to help them find forever homes <3

Most unusual place traveled?

- 3,000 mile bicycle trip from Minneapolis, MN to Bellingham, WA to San Jose, CA

Best place you've ever visited?

- Lived in Vienna, Austria 1 year!

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Writing sci-fi novels
- Buying a mountain home to design a permaculture homestead

Tell us something unique about yourself that few people know.

- I got one tattoo of a quote mark hidden behind my left ear the *very first* week of grad school, and then got another one behind my right ear about *15 minutes* after defending my PhD thesis to "complete the string"—talk about ultimate nerdy CS joke! 😊

Brennan Sprinkle

Applied Mathematics & Statistics



Where are you from, originally?

- Denver, CO

Where were you educated?

- B.S. and M.S. in Applied Math, Colorado School of Mines
- PhD in Applied Math, Northwestern University

What are some of your most significant work experiences?

- Postdoc/Asst. Prof., Courant Institute at NYU

What do you love to teach?

- Modeling and Simulation
- Data visualization

What research topics most interest you?

- Simulating Random Processes
- Soft Matter
- Computational Fluid Dynamics

What is your most significant publication?

["Reconfigurable Microbots Folded from Simple Colloidal Chains"](#) by T. Yang, B.

Sprinkle, Y. Guo, J. Qian, D. Hua, A. Donev, D. W.M. Marr, and N. Wu, PNAS, 202007255, 2020.

What are you passionate about beyond your professional interests?

- Music (but I can't play anything)
- Running
- Fly fishing
- Plants
- Travel
- My cats

What is the most unusual place you've ever traveled?

- The Atacama Desert

Where is the best place you've ever visited?

- Also the Atacama, but to give another one - Mitzpe Ramon, Israel

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Learn French
- Play Violin

Tell us something unique about yourself that few people know.

- Debbie Harry from Blondie babysat me a few times when I was a toddler.

Anna Staerz

Metallurgical & Materials Engineering



Where are you from, originally?

- Denver, CO

Where were you educated?

- B.S. and M.S in Chemistry, Eberhard Karls University of Tuebingen
- Dr. rer. Nat. Eberhard Karls University of Tuebingen

What are some of your most significant work experiences?

- Postdoctoral Associate in the Department of Materials Science and Engineering, Massachusetts Institute of Technology
- Postdoctoral Associate, Power to Molecules, IMEC Belgium

What do you love to teach?

- Introduction to Electrochemistry
- How to Cook Maultaschen.

What research topics most interest you?

- Applications of Metal Oxide Gas Sensors
- Influence of Surface Additives on Metal Oxide Chemistry
- Monitoring Charge Transfer Associated with Reactions

What is your most significant publication?

The oxidizing effect of humidity on WO_3 based sensors, A Staerz, C Berthold, T Russ, S Wicker, U Weimar, N Barsan, Sensors and Actuators B: Chemical 237, 54-58

What are you passionate about beyond your professional interests?

- Running
- Hiking
- Skiing
- Reading
- Cooking

What is the most unusual place you've ever traveled?

- Takasakiyama Monkey Park, Beppu, Japan

Where is the best place you've ever visited?

- Pagosa Springs, CO

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Train to run the Lichtenstein alpine marathon

Tell us something unique about yourself that few people know.

- Despite my inability to sing, I love Karaoke.

Pejman Tahmasebi

Petroleum Engineering



Where are you from, originally?

- Iran

Where were you educated?

- Amirkabir University of Technology,
- University of Southern California,
- Stanford University,
- The University of Texas at Austin,
- California Institute of Technology

What are some of your most significant work experiences?

- Working with an amazing group of graduate students
- Advising my previous institution on establishing a new school for computational modeling

What do you love to teach?

- Geomechanics
- Machine Learning

What research topics most interest you?

- Granular Particles
- Multiphysics Modeling
- Physics-informed Machine Learning

What is your most significant publication?

Tahmasebi, P. and Sahimi, M., 2013. Cross-correlation function for accurate reconstruction of heterogeneous media. *Physical review letters*, 110(7), p.078002.

What are you passionate about beyond your professional interests?

- Skiing
- Hiking
- Traveling

What is the most unusual place you've ever traveled?

- I usually don't travel to "unusual" places!

Where is the best place you've ever visited?

- Switzerland

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Playing a musical instrument

Tell us something unique about yourself that few people know.

- None.

Ryan Venturelli

Geology & Geological Engineering



Where are you from, originally?

- Schererville, IN

Where were you educated?

- B.S. in Geology, Indiana University Northwest
- MS in Earth and Quaternary Systems, Indiana State University
- PhD in Marine Science, University of South Florida

What are some of your most significant work experiences?

- Postdoctoral Fellow, Tulane University

What do you love to teach?

- Paleoclimate
- Biogeochemistry
- Isotope geochemistry

What research topics most interest you?

- Glacial history
- Antarctic subglacial science
- Radiocarbon

What is your most significant publication?

Venturelli, R. A., M. R. Siegfried, K. A. Roush, W. Li, J. Burnett, Robert Zook, H. A. Fricker, J. C. Priscu, A. Leventer, and B. E. Rosenheim. "Mid-Holocene grounding line retreat and readvance at Whillans Ice Stream, West Antarctica." *Geophysical Research Letters* 47, no. 15 (2020): e2020GL088476.

What are you passionate about beyond your professional interests?

- Olympic Weightlifting
- Cooking
- Hiking
- Gardening
- Dogs 😊

What is the most unusual place you've ever traveled?

- Mercer Ice Stream, Antarctica

Where is the best place you've ever visited?

- Cape Town, South Africa

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Beekeeping

Tell us something unique about yourself that few people know.

- I paid for college with winnings from equestrian competitions.

Bia Villas Bôas

Geophysics



Where are you from, originally?

- Natal, Brazil

Where were you educated?

- B.S. in Physics, Federal University of Rio Grande do Norte (Brazil)
- M.S in Physical Oceanography, University of São Paulo (Brazil) & LEGOS (France)
- Ph.D. in Oceanography, Scripps Institution of Oceanography, UC San Diego

What are some of your most significant work experiences?

- Lead an OceanObs19 review paper as a grad student
- Serve as a teacher/coordinator of the Carpentries at SIO

What do you love to teach?

- Physical Oceanography
- Best practices in scientific computing

What research topics most interest you?

- Ocean surface waves
- Air-sea interactions
- Remote sensing of the ocean

What is your most significant publication?

Villas Bôas, A. B., et al. "The signature of mesoscale eddies on the air-sea turbulent heat fluxes in the South Atlantic Ocean." *Geophysical Research Letters* 42.6 (2015): 1856-1862.

What are you passionate about beyond your professional interests?

- Music
- The ocean
- Martial arts
- Cooking/Fermentation
- Psychology

What is the most unusual place you've ever traveled?

- Edoras, Middle Earth

Where is the best place you've ever visited?

- Uyuni salt flats, Bolivia

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Play more music

Tell us something unique about yourself that few people know.

- I have lived on a sailboat

Seth Vuletich

Arthur Lakes Library



Where are you from, originally?

- Denver, CO

Where were you educated?

- B.A. in Geology, University of Colorado, Boulder
- MLIS, University of Denver

What are some of your most significant work experiences?

- Woodworker, Colorado Custom Made Kitchens
- Evening and Weekend Circulation Supervisor, Westminster Law Library

What do you love to teach?

- Information Literacy
- Copyright

What research topics most interest you?

- Open Educational Resources Assessment
- Accessibility in Higher Education for Students with Disabilities

What is your most significant publication?

Vuletich, S., Bongiovanni, E., Buljung, B. B., & Odicino, A. L. (2022, March). Building Curriculum for Instructors to Address OER Accessibility as STEM Librarians. In *2022 ASEE-North Central Section Conference*.

What are you passionate about beyond your professional interests?

- Dogs
- Cooking
- Travel
- Hiking
- Skiing

What is the most unusual place you've ever traveled?

- Fjordlands, New Zealand

Where is the best place you've ever visited?

- Hawaii

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Hang Gliding

Tell us something unique about yourself that few people know.

- I am in my fourth position at the Colorado School of Mines (in 2 years)

Zibo Wang

Computer Science



Where are you from, originally?

- Dalian, China

Where were you educated?

- B.E. in Automation, Dalian University of Technology
- MS in Computer Science, Louisiana Tech University
- MS in Mathematics, Louisiana University
- PhD in Computational Analysis and Modeling, Louisiana Tech University

What are some of your most significant work experiences?

- Post-Doc at Wuhan University
- Lecturer at Louisiana Tech University

What do you love to teach?

- Machine Learning
- Python

What research topics most interest you?

- Biometric authentication
- Machine learning

What is your most significant publication?

Towards Robotic Robbery on the Touch-Screen. *ACM Transactions on Information and System Security*.

What are you passionate about beyond your professional interests?

- Cooking
- Swimming
- Biking
- Boating

What is the most unusual place you've ever traveled?

- Guilin, China

Where is the best place you've ever visited?

- The forbidden city, China

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Guitar and piano
- Paint

Tell us something unique about yourself that few people know.

- I ate hundreds of pounds of crawfish every year in Louisiana
- I like to try various types of cocktails

Aubrey Wigner

Engineering, Design & Society



Where are you from, originally?

- Denver, CO

Where were you educated?

- BS in Chemical and Biological Engineering, CSM
- MS International Political Economy of Resources, CSM
- PhD, Human and Social Dimensions of Science and Technology, Arizona State

What are some of your most significant work experiences?

- Assistant Professor, Entrepreneurship, Michigan State University
- Making and Makerspaces Researcher, Arizona State University
- Signals Intelligence Analyst, US Army

What do you love to teach?

- Prototyping and Inclusive Design
- Systems Thinking

What research topics most interest you?

- Interdisciplinary collaboration
- Project based learning
- Education assessment

What is your most significant publication?

Delborne, J., Hasala, D., Wigner, A., Kinchy, A. (2020). Dueling metaphors, fueling futures: "Bridge fuel" visions of coal and natural gas in the United States. In *Energy Research & Social Science*

What are you passionate about beyond your professional interests?

- Cooking and mixology
- Science Fiction
- Homebrewing
- DIY projects
- Sculpture and modern art

What is the most unusual place you've ever traveled?

- The DMZ, South Korean side

Where is the best place you've ever visited?

- Maui, Hawaii

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Abstract sculpture design

Tell us something unique about yourself that few people know.

- While I was in the Army I also worked with a band, The Beat Regime, crafting techno songs. We weren't good, but we had a ton of fun!

Brianna Zrinsky

Humanities, Arts, and Social Sciences



Where are you from, originally?

- Naperville, IL

Where were you educated?

- B.M.E. (Bachelor of Music Education) with an Instrumental Music Emphasis, Wheaton College
- MM (Master of Music) with a Wind Conducting Emphasis, Northwestern University

What are some of your most significant work experiences?

- Visual and Performing Arts Curriculum Task Force Member, Morrison Academy (Taiwan)
- Alex Herring Instructional Music Technology Grant Recipient
- NAFME Faculty Chair, Rocky Mountain College
- Director of Bands, Rocky Mountain College

What do you love to teach?

- Concert Band
- Music Theory
- Instrumental Music Methods
- World Music

What research topics most interest you?

- Instrumental Music Education Methods
- International Students' Undergraduate Music Experiences
- Wind Repertoire and Conducting

The

What is your most significant research?

Graduate Music Society of the University of Calgary's Confounding Expectations 2021 International Conference Research Paper Presentation

"To My Musicians: Give You My Heart" A Narrative Study of an International Master of Music in Conducting Student

What are you passionate about beyond your professional interests?

- Photography
- Painting
- Minerals and Fossils
- Hiking

What is the most unusual place you've ever traveled?

- Penghu, Taiwan



My photo of Penghu's Basalt Columns - they have a fascinating geological museum in Penghu!

Where is the best place you've ever visited?

- Kyoto, Japan

What new thing do you aspire to learn or pursue "someday" when you get the time?

- Music composition - specifically writing wind ensemble music

Tell us something unique about yourself that few people know.

- A few summers ago I played flute for a Carnegie Hall pop-up orchestra in Times Square conducted by Marin Alsop



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