



COLORADO SCHOOL OF MINES



Getting to know you

NEW FACULTY BIOS

2023-24

Cindy Athanasiou

Engineering, Design, & Society



Where are you from, originally?

- ✓ West Haven, CT

Where were you educated?

- ✓ B.S. in Materials Engineering from Rensselaer Polytechnic Institute
- ✓ M.S. and Ph.D. in Polymer Science and Engineering from UMass, Amherst

What are some of your most significant work experiences?

- ✓ Project Supervisor and Chemist, Hot Melt Adhesives Division, National Starch and Chemical Company
- ✓ High School Science and Engineering Teacher, Sayreville War Memorial High School, Hunterdon Central Regional High School, and Ridge High School all in NJ

What do you love to teach?

- ✓ Engineering Design
- ✓ Anything hands-on in the fields of science or engineering

What research topics most interest you?

- ✓ Effective teaching practices
- ✓ Factors that impact learning

What is your most significant publication?

Athanasiou, Cynthia, Farris, Richard J. “*The Modification of Epoxy/Amine Resin Systems with Poly(Ether Imide)*” (1995) Dissertation publication

What are you passionate about beyond your professional interests?

- ✓ Hiking
- ✓ Biking
- ✓ Kayaking
- ✓ Camping
- ✓ Photography
- ✓ Playing trombone

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

- ✓ San Marino, Italy

Where is the best place you’ve ever visited?

- ✓ Colorado – then I moved here!

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

- ✓ Building a wooden kayak

Tell us something unique about yourself that few people know.

- ✓ I volunteer at The Wild Animal Sanctuary in Keenesburg.

Omid Beik

Electrical Engineering



Where are you from, originally?

- ✓ I grew up in Iran

Where were you educated?

- ✓ PhD, Electrical and Computer Engineering, McMaster University, Ontario, Canada

What are some of your most significant work experiences?

- ✓ Assistant Professor, North Dakota State University (NDSU), Fargo, ND, USA
- ✓ Founder, Enercs Inc., Ontario, Canada

What do you love to teach?

- ✓ Power Grids
- ✓ Power Electronics

What research topics most interest you?

- ✓ Grid Integration of Renewable Energy Systems
- ✓ Electric Propulsions for Spacecrafts, Aerospace, Ships

What is your most significant publication?

B. Saude, N. LaSart, J. Blair and O. Beik, "Microgrid-Based Wind and Solar Power Generation on Moon and Mars," IEEE Transactions on Smart Grid, vol. 14, no. 2, pp. 1329-1332, March 2023.

What are you passionate about beyond your professional interests?

- ✓ Camping, Skiing, and Outdoors
- ✓ Swimming
- ✓ Travelling

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

- ✓ I would like to travel to the Moon, build a base, and then go to Mars do the same, and from there go to other planets & galaxies.

Where is the best place you've ever visited?

- ✓ I have great memories everywhere that I have visited.

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

- ✓ Extraterrestrial life

Tell us something unique about yourself that few people know.

- ✓ I am an open book.

Zack Bennett
*Director, Venture Center
Programs*



Where are you from, originally?

- ✓ Lamar, Colorado
- ✓ (But I lived for almost 20 years in New York City)

Where were you educated?

- ✓ B.S. in Electrical Engineering, Colorado School of Mines
- ✓ MBA in International Management from Thunderbird

What are some of your most significant work experiences?

- ✓ Founder & CEO of Abaxx Technologies, a clean-tech financial services company. We took it from founding to IPO in less than 4 years.

What do you love to teach?

- ✓ Entrepreneurship
- ✓ Building Startups
- ✓ Negotiations

What research topics most interest you?

- ✓ Anything Clean Tech or Energy Transition

What is your most significant publication?

Winning in the Future of Work
#1 Best seller in Business Education on Amazon

What are you passionate about beyond your professional interests?

- ✓ My toddler Max and Wife Sarah
- ✓ My Australian Shepherd
- ✓ Hiking, Cycling, and Running

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

- ✓ Coney Island

Where is the best place you've ever visited?

- ✓ Wrangle St Elias, Alaska

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

- ✓ Study at the Culinary Institute of America

Tell us something unique about yourself that few people know.

- ✓ I love diagramming sentences

Victoria Bill

Director, Labriola Innovation Hub



Where are you from, originally?

- ✓ Columbus, OH

Where were you educated?

- ✓ B.S.E.E. in Electrical Engineering, the Ohio State University
- ✓ M.S. in Electrical Engineering, University of Texas at Austin
- ✓ Currently pursuing Ph.D. part-time in Engineering Education, the Ohio State University

What are some of your most significant work experiences?

- ✓ Founding Director, MakerSpace Lab, New York University
- ✓ Managing Director, Experiential Learning Center, New York University

What do you love to teach?

- ✓ Introduction to Engineering Design
- ✓ Circuit Fabrication and Design

What research topics most interest you?

- ✓ Makerspaces and open-ended design motivation
- ✓ Co-curricular student skill development
- ✓ Professional skill development for engineers

What is your most significant publication?

Bill, V., & Fayard, A. (2017, June), *Building an Entrepreneurial and Innovative Culture in a University Makerspace* Paper presented at 2017 ASEE Annual Conference & Exposition, Columbus, Ohio. 10.18260/1-2--27985

What are you passionate about beyond your professional interests?

- ✓ Cooking & baking
- ✓ Friends & family
- ✓ Music
- ✓ Hiking
- ✓ Being a mother

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

- ✓ Machu Picchu, Peru

Where is the best place you've ever visited?

- ✓ Malaga & Granada, Spain

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

- ✓ Knitting a sweater (almost there)

Tell us something unique about yourself that few people know.

- ✓ I play the harp

Donna Bodeau

Engineering, Design, & Society



Where are you from, originally?

- ✓ Castle Rock, CO
(Before the 1st stop light!)

Where were you educated?

- ✓ Gonzaga University
B.S. Electrical Engineering
(Before the basketball team was good!)

What are some of your most significant work experiences?

- ✓ Honeywell Test Instruments
Division – Research and
Development Engineer
- ✓ Sienna Imaging – Design Engineer
- ✓ Thomas Electronics – Senior Design
Engineer

What do you love to teach?

- ✓ Mines Capstone Design
- ✓ Advanced Software Engineering

What research topics most interest you?

- ✓ Optical deflection detection
- ✓ Robotics proportional, integral and derivative (PID) algorithms

What is your most significant patent?

- ✓ Staggered multiple CRT's in a photographic process printer: US5373347A

What are you passionate about beyond your professional interests?

- ✓ Coaching High School Robotics
- ✓ Grief Ministry
- ✓ Mentoring High School students
- ✓ Caring for my 98-year-old mother

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

- ✓ Wilbur, Washington

What is the best place you've ever visited?

- ✓ Wilbur, Washington

What new thing do you inspire to do someday when you get the time?

- ✓ Welding
- ✓ Glass Blowing
- ✓ Stained Glass

Tell us something unique about yourself that few people know?

- ✓ I co-founded the first Girl Scout STEM camp

Abby Boyd

Chemistry



Where are you from, originally?

- ✓ Jacksonville, FL

Where were you educated?

- ✓ B.S. in Biochemistry and Molecular Biology, Mercer University
- ✓ MS in Chemistry, Clemson University
- ✓ Ph.D. in Engineering and Science Education, Clemson University

What are some of your most significant work experiences?

- ✓ Graduate Research Assistant, Clemson University
- ✓ Graduate Teaching Scholar, Clemson University

What do you love to teach?

- ✓ Environmental Chemistry
- ✓ General Chemistry

What research topics most interest you?

- ✓ Recruitment and Retention in science fields
- ✓ Environmental Chemistry

What is your most significant publication?

Boyd, E. A., Lazar, K. B., & Moysey, S. M. (2023). Big data to support geoscience recruitment: Novel adoption of topological data analysis in geoscience education. *GSA Bulletin*.

What are you passionate about beyond your professional interests?

- ✓ Running
- ✓ Sports

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

- ✓ Zaruma, Ecuador

Where is the best place you've ever visited?

- ✓ Golden, Colorado of course!

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

- ✓ Kayaking

Tell us something unique about yourself that few people know.

- ✓ I didn't lose a running race in all of grad school

Tom Brady

Economics & Business



Where are you from, originally?

- ✓ Tulsa, OK

Where were you educated?

- ✓ B.S. in Mathematics, B.S. in Computer Science, Regis University
- ✓ MS, Mathematics, Colorado School of Mines; PhD, Mineral Economics, Colorado School of Mines

What are some of your most significant work experiences?

- ✓ Chief Economist, Newmont Mining Corp.
- ✓ Exec. Director, J.P. Morgan Center for Commodities & Energy Management, U. of Colorado-Denver Business School

What do you love to teach?

- ✓ Foundations of Commodities
- ✓ Mineral Investments

What research topics most interest you?

- ✓ Critical minerals
- ✓ Commodity markets
- ✓ Mineral policy

What is your most significant publication?

Most of my career has been in industry where research was not a priority, but I have co-authored:

- ✓ Hammond, D., Brady, T (2022), “Critical Minerals for the Green Energy Transition - A U.S. Perspective”.
- ✓ Drielsma, J., et. al. “Mineral Resources in Life Cycle Impact Assessment”

What are you passionate about beyond your professional interests?

- ✓ Triathlons
- ✓ Mountain biking
- ✓ Family and friends
- ✓ Travel

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

- ✓ Akyem-Abenaso, Ghana

Where is the best place you’ve ever visited?

- ✓ Lake Hallstatt, Austria

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

- ✓ More advanced painting

Tell us something unique about yourself that few people know.

- ✓ I have an identical twin brother...so if any work effort is botched, I can blame him!

Jack Bringardner

Engineering, Design, & Society



Where are you from, originally?

- ✓ Columbus, OH

Where were you educated?

- ✓ B.S. Civil Engineering, The Ohio State University
- ✓ MS and PhD, Civil Engineering, Transportation Engineering, The University of Texas at Austin

What are some of your most significant work experiences?

- ✓ Assistant Dean for Academic and Curricular Affairs, NYU Tandon School of Engineering
- ✓ Director of General Engineering and Vertically Integrated Projects, Industry Associate Professor, NYU

What do you love to teach?

- ✓ Cornerstone
- ✓ Introduction to Engineering
- ✓ Vertically Integrated Projects

What research topics most interest you?

- ✓ Engineering curriculum
- ✓ Inclusive teaching
- ✓ Student professional skills
- ✓ Project-based learning
- ✓ Experiential learning

What is your most significant publication?

Bringardner, J. (2019, July), Developing a Primer for First-Year Engineering Educators. 2019 First-Year Engineering Experience. , Penn State University

What are you passionate about beyond your professional interests?

- ✓ Friends & family
- ✓ Music
- ✓ Movies
- ✓ Food
- ✓ Travel
- ✓ Hiking

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

- ✓ Fagradalsfjall, Iceland

Where is the best place you've ever visited?

- ✓ Emilia-Romagna, Italy

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

- ✓ Music recording

Tell us something unique about yourself that few people know.

- ✓ I met my wife in physics during engineering undergrad first year

Maxwell Brown

Economics and Business



Where are you from, originally?

- ✓ Fargo, ND

✓ Where were you educated?

- ✓ Doctor of Philosophy, Mineral and Energy Economics, Colorado School of Mines, 2013–2017
- ✓ Master of Science, Resource Economics and Policy, University of Maine, 2010–2012
- ✓ Bachelor of Science, Economics and Statistics, North Dakota State University, 2006–2010

What are some of your most significant work experiences?

- ✓ Senior modeler, Senior energy systems modeler, Researcher - National Renewable Energy Laboratory (2017-2023)
- ✓ ASTRO researcher, Oak Ridge National Laboratory (2012-2017)

What do you love to teach?

- ✓ Energy systems modeling
- ✓ Computational economics

What research topics most interest you?

- ✓ Energy policy
- ✓ New modeling methods
- ✓ Intersectoral interactions

What is your most significant publication?

John Bistline et al., Emissions and energy impacts of the Inflation Reduction Act. *Science*. 380, 1324-1327(2023). DOI:10.1126/science.adg3781

What are you passionate about beyond your professional interests?

- ✓ Woodworking
- ✓ Gardening
- ✓ Hunting
- ✓ Traveling

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

- ✓ Nagahama, Japan (actually typing this document up from there)

Where is the best place you've ever visited?

- ✓ Hakone, Japan

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

- ✓ Finish learning Spanish

Tell us something unique about yourself that few people know.

- ✓ I worked building cell and wind towers to pay for my study abroad trip

Mairedad Case

Humanities, Arts, & Social Sciences



Where are you from, originally?

- ✓ Seattle, WA

Where were you educated?

- ✓ BA, Great Books and French; University of Notre Dame
- ✓ MFA, Fiction; School of the Art Institute of Chicago
- ✓ PhD, English and Literary Arts; University of Denver
- ✓ ELA/ELD Certification, Denver Public Schools

What are some of your most significant work experiences?

- ✓ Teaching in universities, public schools, and maximum-security jails in CO for the last 10 years
- ✓ Curricula and Programs at the Poetry Foundation Library
- ✓ Archivist, Studs Terkel Archives
- ✓ Magazine and Book Editor

What do you love to teach?

- ✓ Nature and Human Values
- ✓ Fiction, Literature, Poetry
- ✓ Socioemotional Skills and Health

What research topics most interest you?

- ✓ Curriculum and Pedagogy
- ✓ Civics and Morality
- ✓ Fiction, especially the novel

What is your most significant publication?

- ✓ Two novels

What are you passionate about beyond your professional interests?

- ✓ Art
- ✓ Music
- ✓ Film
- ✓ Basketball
- ✓ The Ocean!
- ✓ Friends and family

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

- ✓ The House on the Rock

Where is the best place you've ever visited?

- ✓ Lummi Island, WA
- ✓ The Art Institute of Chicago

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

- ✓ Stained glass

Tell us something unique about yourself that few people know.

- ✓ In a zombie apocalypse, I would help us stay calm and make a collective plan.

Micah Corah

Computer Science



Where are you from, originally?

- ✓ Centennial, CO

Where were you educated?

- ✓ B.S. in Computer Science & Mechanical Engineering, Rensselaer Polytechnic Institute
- ✓ MS and PhD in Robotics, Carnegie Mellon University

What are some of your most significant work experiences?

- ✓ Postdoc in AirLab at CMU: Multi-robot filming and reconstruction
- ✓ Postdoc at JPL: Exploration of subterranean environments with legged, wheeled, and aerial robots

What do you love to teach?

- ✓ I am new to teaching, but ask me about information gathering and submodular optimization

What research topics most interest you?

- ✓ Robot perception planning
- ✓ Multi-robot coordination
- ✓ Aerial filming

What is your most significant publication?

Micah Corah and Nathan Michael.
Distributed submodular maximization on partition matroids for planning on large sensor networks. Conference on Decision and Control, 2018.

What are you passionate about beyond your professional interests?

- ✓ Climbing and bouldering
- ✓ Snowboarding
- ✓ Indian cooking
- ✓ Reading novels
(ask me about my favorites)
- ✓ Heavy music & concerts

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

- ✓ Field tests in limestone mines and an abandoned subway station

Where is the best place you've ever visited?

- ✓ I will visit my wife's family in Hyderabad for the first time this fall

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

- ✓ I'm excited to become active in the climbing community around Golden

Tell us something unique about yourself that few people know.

- ✓ I tried one of the spiciest curries in North America at Jitlada in LA

Duncan Davis-Hall

Engineering, Design, & Society



Where are you from, originally?

- ✓ Olympia, WA

Where were you educated?

- ✓ BS in Biomedical Engineering, California Polytechnic State University San Luis Obispo
- ✓ MS and PhD in Bioengineering, University of Colorado Denver | Anschutz Medical Campus

What are some of your most significant work experiences?

- ✓ BOLT Summer Camp Counselor
- ✓ Anschutz Student Senator

What do you love to teach?

- ✓ Engineering design
- ✓ Programming

What research topics most interest you?

- ✓ Engineering education
- ✓ Biomaterials

What is your most significant publication?

D. Davis-Hall, E. Thomas, B. Peña, C.M. Magin. 3D-bioprinted, phototunable hydrogel models for studying adventitial fibroblast activation in pulmonary arterial hypertension. *Biofabrication* 15(1) (2022).

What are you passionate about beyond your professional interests?

- ✓ Running
- ✓ Music production and performance
- ✓ Skiing
- ✓ Gaming
- ✓ Backpacking

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

- ✓ Limerick, Ireland

Where is the best place you've ever visited?

- ✓ Northwest Thailand

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

- ✓ Through-hiking the Colorado Trail

Tell us something unique about yourself that few people know.

- ✓ I have moved 20 times in my life!

Garrett Erickson P.E.

Engineering, Design, & Society



Where are you from, originally?

- ✓ Arvada, CO

Where were you educated?

- ✓ B.S. in Civil Engineering, Colorado School of Mines
- ✓ MS in Engineering Systems – Structural, Colorado School of Mines

What are some of your most significant work experiences?

- ✓ Lead Investigative Engineer – Muskrat Falls Dam formwork collapse.
- ✓ Lead Structural Engineer for the development of the NexTracker and Ideematec solar tracking systems.
- ✓ Mud Mountain Dam outlet works rearmament.

What do you love to teach?

- ✓ Cornerstone
- ✓ Capstone

What research topics most interest you?

- ✓ Meaningful Prototyping and testing
- ✓ Hands-on learning
- ✓ Entrepreneurship
- ✓ Litigation Support

What are you passionate about beyond your professional interests?

- ✓ International Travel
- ✓ Skiing/Snowboarding
- ✓ Camping/Hiking/Fishing
- ✓ Managing elementary school running club
- ✓ Parenting

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

- ✓ Egypt

Where is the best place you've ever visited?

- ✓ Machu Pichu, Peru

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

- ✓ Fly Fishing and offroad vehicle customization

Tell us something unique about yourself that few people know.

- ✓ I have worked on engineering projects located in 30+ countries and all 7 continents.

Kaveh Fathian

Computer Science



Where are you from, originally?

- ✓ Tehran, Iran

Where were you educated?

- ✓ B.S. in Electrical Eng., IKIU, Iran
- ✓ MS in Mathematics, University of Texas at Dallas
- ✓ MS & PhD in Electrical Eng., University of Texas at Dallas

What are some of your most significant work experiences?

- ✓ Postdoc & Research Scientist, Massachusetts Institute of Technology
- ✓ Visiting scholar, University of Florida

What do you love to teach?

- ✓ Computer Vision
- ✓ Robotics

What research topics most interest you?

- ✓ Robotics & autonomy
- ✓ Machine learning & computer vision
- ✓ Multi-agent systems

What are your most significant publications?

- ✓ “CLIPPER: A graph-theoretic framework for robust data association,” IEEE ICRA’21
- ✓ “A distributed pipeline for scalable, deconflicted formation flying,” IEEE RAL’20

What are you passionate about beyond your professional interests?

- ✓ Art
- ✓ Music – classic, opera
- ✓ Hiking
- ✓ Jogging
- ✓ Tinkering

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

- ✓ Upper peninsula of Michigan in winter

Where is the best place you’ve ever visited?

- ✓ Destin beach, Florida

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

- ✓ Become a better piano player

Tell us something unique about yourself that few people know.

- ✓ I can cook an authentic Texas-style brisket BBQ

Kelsey Fulton

Computer Science



Where are you from, originally?

- ✓ Conestoga, PA

Where were you educated?

- ✓ B.S. in Computer Science and Mathematics, Millersville University
- ✓ MS and PhD, Computer Science, University of Maryland

What are some of your most significant work experiences?

- ✓ Director of Education, Center for Integration of Research & Learning, National High Magnetic Field Laboratory
- ✓ Chair, Science Team, Institute for Learning and Associate Director, Engineering Education Research Center, University of Pittsburgh

What do you love to teach?

- ✓ Introduction to Computer Security

What research topics most interest you?

- ✓ Human factors of secure software development
- ✓ Improving participation/diversity in security

What is your most significant publication?

Fulton, K.R., Katcher, S., Song, K., Chetty, M., Mazurek, M. L., Messdaghi, C., and Votipka, D. (2023).

Vulnerability Discovery for All: Experiences of Marginalization in Vulnerability Discovery. In IEEE Symposium on Security and Privacy.

What are you passionate about beyond your professional interests?

- ✓ Rock Climbing
- ✓ Weight Lifting
- ✓ Hiking
- ✓ Board Games
- ✓ My Pet Rats

Where is the best place you've ever visited?

- ✓ New Zealand

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

- ✓ Multi-pitch climbing

Patrice Genevet

Physics



Where are you from, originally?

- ✓ Belvédère, South of France

Where were you educated?

- ✓ B.S. in Physics and chemistry, Université Côte d'Azur, France
- ✓ MS and PhD in Physics, Université Côte d'Azur, France

What are some of your most significant work experiences?

- ✓ Research Associate at Harvard University, USA
- ✓ Senior research scientist at A*STAR Singapore.
- ✓ Senior scientist at CNRS, France

What do you love to teach?

- ✓ Fundamentals of Photonics

What research topics most interest you?

- ✓ Nanophotonics
- ✓ Metasurfaces
- ✓ 3D Imaging

What is your most significant publication?

“Light Propagation with Phase Discontinuities: Generalized Laws of Reflection and Refraction”.

N. Yu, P. Genevet, M. A. Kats, F. Aieta, J.P. Tetienne, F. Capasso, and Z. Gaburro, *Science* 334, 333-337 (2011)

What are you passionate about beyond your professional interests?

- ✓ Beekeeping
- ✓ Biking
- ✓ Ski touring
- ✓ Hiking
- ✓ Hunting and fishing activities
- ✓ Camping

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

- ✓ Yellow Mountains of China, Huangshan China

Where is the best place you've ever visited?

- ✓ Sacred Valley of the Incas, Peru

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

- ✓ Hiking Mont Blanc

Tell us something unique about yourself that few people know.

- ✓ I am a passionate beekeeper

Karen Gupta

Civil & Environmental Engineering



Where are you from originally?

- ✓ New York City, NY

Where were you educated?

- ✓ B.S. and M.S. in Civil Engineering, University of Illinois

What are some of your most significant work experiences?

- ✓ Sustainability / Pre-Construction Director of Florida Turnpike Rest Area Rebuild Project
- ✓ PreConstruction Manager for Miami Children's Hospital Central Energy Plant, Parking Garage, NICU

What do you love to teach?

- ✓ Construction Engineering
- ✓ Construction Estimating / Planning / Scheduling
- ✓ Construction Law

What research topics most interest you?

- ✓ Water resources reduction in construction operations
- ✓ Construction sustainability
- ✓ Legal issues in construction

What is your most significant publication?

Gupta, Karen E. 2021. "Financial Remedies for Personal Property Damage in Water Main Breaks." *Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*. [https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000471](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000471)

What are you passionate about beyond your professional interests?

- ✓ My daughters (ages 18 & 20)
- ✓ Hiking
- ✓ Cooking
- ✓ Skiing
- ✓ Home remodeling

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

- ✓ An elephant sanctuary in Tsavo National Park, Kenya

Where is the best place you've ever visited?

- ✓ Kinderdijk, The Netherlands

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

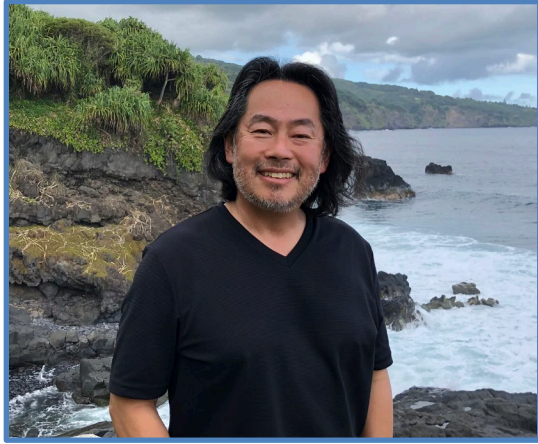
- ✓ Electric longboarding

Tell us something unique about yourself that few people know.

- ✓ I am Dutch and Indian and a first generation American and first gen student from both parents.

Masakazu Ito

Humanities, Arts, & Social Sciences



Where are you from, originally?

- ✓ Tokyo, Japan

Where were you educated?

- ✓ Bachelor of Economics, Keio University (Tokyo, Japan)
- ✓ Master of Arts in Classical Guitar Performance, University of Denver

What are some of your most significant work experiences?

- ✓ Winner of seven international guitar competitions
- ✓ Professor of Guitar at University of Denver (1990-2012)
- ✓ Arts and Culture Advisory Committee, The Denver Foundation (2007-2011)
- ✓ Board director, Jefferson Symphony Orchestra

What do you love to teach?

- ✓ Music Theory in general
- ✓ Motivic and voicing analysis of J. S. Bach's instrumental compositions
- ✓ Form and analysis of music in the Classical era

What research topics most interest you?

- ✓ Finding out the most efficient and effective way to practice music for laypersons

What is your most significant publication?

My debut CD "Intimate Guitar" (1996); still the best seller among my publications

What are you passionate about beyond your professional interests?

- ✓ Golf
- ✓ Culinary arts

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

- ✓ South Africa

Where is the best place you've ever visited?

- ✓ Spain, mainly the south

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

- ✓ Writing more orchestral compositions

Tell us something unique about yourself that few people know.

- ✓ Kitaro, Japanese new age musician, asked me to write guitar parts and perform guitar in his album "Thinking of You" (2000) – this album ended up winning the Grammy

Matt Johnson

Mechanical Engineering



Where are you from, originally?

- ✓ Clinton, MA

Where were you educated?

- ✓ B.S. Mechanical Engineering, Valparaiso University
- ✓ M.S. Mechanical Engineering, University of Florida

What are some of your most significant work experiences?

- ✓ Senior Manufacturing and Test Engineer, MMA Design LLC
- ✓ Design Engineer, Stages Cycling
- ✓ Manufacturing Development Specialist, MillerCoors
- ✓ Design Engineer, Caterpillar Inc.

What do you love to teach?

- ✓ Manufacturing and anything hands-on

What are you passionate about beyond your professional interests?

- ✓ Family
- ✓ Triathlon
- ✓ Mountain Biking
- ✓ Skiing
- ✓ Running
- ✓ Brewing Beer
- ✓ Woodworking

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

- ✓ Rütli, Switzerland

Where is the best place you've ever visited?

- ✓ Berlin, Germany
- ✓

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

- ✓ Improve my golf game
- ✓ Complete more long course triathlons
- ✓ Ride the Copper Triangle and the Triple Bypass

Tell us something unique about yourself that few people know.

- ✓ I have completed an Ironman triathlon

Ali Kerr

Humanities, Arts & Social Sciences



Where are you from, originally?

- ✓ Colorado born and raised

Where were you educated?

- ✓ University of Southern California
– BA Psychology
- ✓ University of Tulsa
– MA and PhD Industrial-Organizational Psychology
- ✓ Postdoc – UIUC
- ✓ Postdoc – Purdue University

What are some of your most significant work experiences?

- ✓ Operations and Training
 - Starbucks
 - Whole Foods
 - Aspen Ski Co.
 - Vail Resorts

What do you love to teach?

- ✓ Psychology for Engineering
- ✓ Research Ethics
- ✓ Professional Ethics

What is your most significant publication?

Yet to be published 😊

What research topics most interest you?

- ✓ Professional development of non-technical competencies
- ✓ Experiential learning
- ✓ Social learning communities
- ✓ Truly interdisciplinary collaboration
- ✓ Formative assessment methods for Training impact and improvement

What are you passionate about beyond your professional interests?

- ✓ Birds
- ✓ Wildfire restoration and trail repair (digging in the dirt)
- ✓ Swimming

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

- ✓ Coffee and Chocolate farms in Panama
- ✓ Rafted the Grand Canyon

Where is the best place you've ever visited?

- ✓ 2 months of backpacking the UK and Europe
- ✓ My own backyards in CO

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

- ✓ Sword making
- ✓ Glass blowing
- ✓ Embroidery

Tell us something unique about yourself that few people know.

- ✓ I drink tea every day (and have for almost a decade)

William Kleiber

Applied Mathematics and Statistics



Where are you from, originally?

- ✓ Iowa City, IA

Where were you educated?

- ✓ B.S. in Mathematics, University of Iowa
- ✓ Ph.D. in Statistics, University of Washington

What are some of your most significant work experiences?

- ✓ Graduate Program Director, Applied Mathematics at CU Boulder

What do you love to teach?

- ✓ Spatial Statistics
- ✓ Time Series
- ✓ Statistical Learning
- ✓ Probability

What research topics most interest you?

- ✓ Statistics for energy sciences
- ✓ Geostatistics
- ✓ Applications in hydrology, atmospheric and climate science

What is your most significant publication?

Krock, M., Kleiber, W., Hammerling, D. and Becker, D. (2023). “Modeling massive highly-multivariate nonstationary spatial data with the basis graphical lasso”, *Journal of Computational and Graphical Statistics*.

What are you passionate about beyond your professional interests?

- ✓ Backpacking
- ✓ Piano and music
- ✓ Skiing
- ✓ Climbing
- ✓ Being dad to 3 boys

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

- ✓ Singapore

Where is the best place you’ve ever visited?

- ✓ Ireland

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

- ✓ Home improvement projects

Tell us something unique about yourself that few people know.

- ✓ Once upon a time I was an avid ultimate frisbee player

Katie Knaus

Mechanical Engineering



Where are you from, originally?

- ✓ Crozet, VA

Where were you educated?

- ✓ B.S. in Mechanical Engineering & Physics, University of Virginia
- ✓ PhD, Biomedical Engineering, University of Virginia

What are some of your most significant work experiences?

- ✓ Postdoctoral Fellowship, Wu Tsai Human Performance Alliance, UC San Diego
- ✓ Graduate Research Assistant, Multiscale Muscle Mechanophysiology Lab, UVA

What do you love to teach?

- ✓ Biomechanics
- ✓ Dynamics
- ✓ Tissue mechanics modeling

What research topics most interest you?

- ✓ Skeletal muscle and tendon structure-function
- ✓ Human & animal biomechanics
- ✓ Exercise physiology and human performance
- ✓ Age/sex differences in mobility

What is your most significant publication?

Knaus, Katherine R., Geoffrey G. Handsfield, and Silvia S. Blemker. 2022. "A 3D Model of the Soleus Reveals Effects of Aponeuroses Morphology and Material Properties on Complex Muscle Fascicle Behavior." *Journal of Biomechanics* 130: 110877.

What are you passionate about beyond your professional interests?

- ✓ Skiing
- ✓ Hiking
- ✓ Trivia
- ✓ Margaritas
- ✓ Taylor Swift
- ✓ Watching sports
- ✓ Being a mom

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

- ✓ Marrakesh, Morocco

Where is the best place you've ever visited?

- ✓ Hawaii Big Island

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

- ✓ Level III adaptive ski instructor certification

Tell us something unique about yourself that few people know.

- ✓ I am a 5-time fantasy football champion

George Kontoudis

Mechanical Engineering



Where are you from, originally?

- ✓ Athens, Greece

Where were you educated?

- ✓ B.S. in Mechanical Engineering, National Technical University of Athens
- ✓ M.S. in Mechanical Engineering, Virginia Tech
- ✓ PhD in Electrical Engineering, Virginia Tech

What are some of your most significant work experiences?

- ✓ Postdoctoral Research Associate, Department of Aerospace Engineering, University of Maryland
- ✓ General Chair, Robotics: Science and Systems Pioneers, 2023

What do you love to teach?

- ✓ Robotics
- ✓ Optimal Control
- ✓ Probabilistic Machine Learning

What research topics most interest you?

- ✓ Multi-robot systems
- ✓ Motion planning
- ✓ Robot hands
- ✓ Gaussian processes

What is your most significant publication?

Kontoudis GP & Vamvoudakis KG (2019). Kinodynamic Motion Planning With Continuous-Time Q-Learning: An Online, Model-Free, and Safe Navigation Framework. *In IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 30(12): 3803–3817.

What are you passionate about beyond your professional interests?

- ✓ Soccer
- ✓ Basketball
- ✓ Hiking
- ✓ Greek islands

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

- ✓ Ithaca, Greece

Where is the best place you've ever visited?

- ✓ Skopelos, Greece

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

- ✓ Snowboarding

Tell us something unique about yourself that few people know.

- ✓ I am a cardiac arrest survivor

Elijah Kuska

Mechanical Engineering



Where are you from, originally?

- ✓ Pittsburgh, PA

Where were you educated?

- ✓ B.S. and MS in Mechanical Engineering, University of Dayton
- ✓ PhD, Mechanical Engineering, University of Washington

What are some of your most significant work experiences?

- ✓ Engineering Consultant, Booz Allen Hamilton
- ✓ Primary Lecturer, University of Washington

What do you love to teach?

- ✓ Dynamics
- ✓ Computer-aided Engineering
- ✓ Biomechanics

What research topics most interest you?

- ✓ Accessible teaching practices
- ✓ Effective learning translation
- ✓ Modeling and simulation of walking of individuals with neurologic injuries

What is your most significant publication?

Kuska EC, Mehrabi N, Schwartz MH, Steele KM. Number of synergies impacts sensitivity of gait to weakness and contracture. J Biomech.

What are you passionate about beyond your professional interests?

- ✓ Hiking
- ✓ Cooking
- ✓ Camping
- ✓ Hockey
- ✓ Movies
- ✓ My family

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

- ✓ Arashiyama, Japan

Where is the best place you've ever visited?

- ✓ See above answer

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

- ✓ Multi-lingual
- ✓ 2000 Elo Chess

Tell us something unique about yourself that few people know.

- ✓ Once tripped over DJ's power cord while they were introducing bride and groom: "It is my pleasure to now introduce, the NEW, Mr. and Mrs... *bzrp - power goes out"

Heather Lammers

Mining



Where are you from, originally?

- ✓ Virginia Beach, VA

Where were you educated?

- ✓ BS in Geological Engineering, University of North Dakota
- ✓ MS in Mining Engineering, Colorado School of Mines
- ✓ PhD (anticipated 2023!) in Mining Engineering, Colorado School of Mines

What are some of your most significant work experiences?

- ✓ Senior Geotechnical Engineer, Hatch
- ✓ Senior Engineer, Technical Principal, Golder Associates

What do you love to teach?

- ✓ Mine Closure
- ✓ Mine Waste and Water Management

What research topics most interest you?

- ✓ Post-mine Land Use
- ✓ Mine Waste and Water Management
- ✓ Multi-criteria Decision Analysis
- ✓ Effective teaching practices

What is your most significant publication?

Tailings Management Handbook: A Life-Cycle Approach. SME. 2022.

Morrison, K., Lammers, H. *Chapter 1 – What Are Tailings?*

Lammers, H., Steele, J., Pegnam, M. *Chapter 18 – Site Characterization.*

Lammers, H., Brett, D. *Chapter 36 – Construction Quality Management*

What are you passionate about beyond your professional interests?

- ✓ Hiking and Snowshoeing
- ✓ Baseball, Hockey, and Soccer
- ✓ Gardening
- ✓ Cooking
- ✓ Comics
- ✓ Family

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

- ✓ Northwest Territories, Canada

Where is the best place you've ever visited?

- ✓ Amsterdam, Netherlands

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

- ✓ Winter Gardening

Tell us something unique about yourself that few people know.

- ✓ I have an extensive video game and system collection.

Sheron Lawson

Economics & Business



Where are you from, originally?

- ✓ Montego Bay, Jamaica

Where were you educated?

- ✓ B.A. in Biology, Augustana College, Rock Island, IL
- ✓ MBA, Keller Graduate School of Management, Chicago, IL
- ✓ DIBA, International Business, Nova Southeastern University, Fort Lauderdale, FL

What are some of your most significant work experiences?

- ✓ Lead Instructor & Program Developer for Study Abroad Program
- ✓ CEO, Insurance Association of the Caribbean

What do you love to teach?

- ✓ International Business
- ✓ Strategic Management

What research topics most interest you?

- ✓ Knowledge Management & Organizational Cultures
- ✓ Increasing Students Engagement and Learning

What is your most significant publication?

Lawson, S. (2019). Employing the internal marketing theory to explain how knowledge dissemination can be enhanced in organizations. *Journal of Organizational Psychology*, 19(3).

What are you passionate about beyond your professional interests?

- ✓ Traveling
- ✓ Cooking
- ✓ Missions
- ✓ Bible Study
- ✓ Hiking
- ✓ Live Music

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

- ✓ Suriname, South America

Where is the best place you've ever visited?

- ✓ Edinburgh, Scotland

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

- ✓ Learn to speak a foreign language

Tell us something unique about yourself that few people know.

- ✓ I love to travel and have visited over 20 countries.

Nathan Lenssen

Applied Mathematics & Statistics



Where are you from, originally?

- ✓ Boulder, CO

Where were you educated?

- ✓ BAs in Math and Physics from Claremont McKenna College
- ✓ MA in Statistics from Columbia University
- ✓ MA and PhD in Earth and Environmental Sciences from Columbia University

What are some of your most significant work experiences?

- ✓ Teaching Scholars Fellow, Columbia Univ.
- ✓ Scientific Analyst, NASA Goddard Institute for Space Studies

What do you love to teach?

- ✓ Any course where students learn tools to answer their own questions!

What research topics most interest you?

- ✓ Integrating simulation into statistics education
- ✓ Climate change, variability, predictability, and impacts

What is your most significant publication?

Schwarzwalder, K., & Lenssen, N. (2022). The importance of internal climate variability in climate impact projections. *Proc. of the National Academy of Sciences*, 119(42)

What are you passionate about beyond your professional interests?

- ✓ Biking/Bike Repair
- ✓ Hiking/Climbing/Skiing
- ✓ Cooking/Eating
- ✓ My puppy

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

- ✓ Cuba

Where is the best place you've ever visited?

- ✓ Wind River Range, WY

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

- ✓ Woodworking and/or electronics projects

Tell us something unique about yourself that few people know.

- ✓ I have been hugged by Lizzo

Christine Liebe

Computer Science



Where are you from, originally?

- ✓ Grand Ledge, MI

Where were you educated?

- ✓ B.A. Psychology/Urban Policy, Michigan State University
- ✓ M.S. and Ph.D. Education: Curriculum, Instruction, Assessment, Walden University

What are some of your most significant work experiences?

- ✓ Research Associate / Postdoc, Computer Science, Mines
- ✓ Education Professor, Colorado Mountain College
- ✓ Licensed K-12 Teacher, Colorado

What do you love to teach?

- ✓ Computer Science Education
- ✓ Introductory Programming

What research topics most interest you?

- ✓ Computer science education for sustainability
- ✓ Computer Science education supporting the evolution of human creativity and intelligence

What is your most significant publication?

Camp, T., Liebe, C., and Slattery, M. (2020). Applying NCWIT Protocol to Broaden Participation in Computing: A Case Study of CS@Mines.

In *Proceedings of the 51st ACM Technical Symposium on Computer Science Education (SIGCSE '20)*.

Association for Computing Machinery, New York, NY, USA, 528–534. DOI:

<https://doi.org/10.1145/3328778.3366958> (best paper)

What are you passionate about beyond your professional interests?

- ✓ Nature
- ✓ Family
- ✓ Massage therapy

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

- ✓ Climbed/Skied Mt. Blanc

Where is the best place you've ever visited?

- ✓ Crested Butte, CO

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

- ✓ Farming

Tell us something unique about yourself that few people know.

- ✓ I was a raft guide and a snowmobile guide!

Guannan Liu
Computer Science



Where are you from, originally?

- ✓ Beijing, China

Where were you educated?

- ✓ B.S. in Electrical and Computer Engineering, Purdue University
- ✓ Ph.D. in Electrical and Computer Engineering, Virginia Tech

What are some of your most significant work experiences?

- ✓ Hardware Platform Engineer, Dilili Labs, Inc., Palo Alto, CA

What do you love to teach?

- ✓ Computer Networks
- ✓ Network/Information Security
- ✓ IoT Security

What research topics most interest you?

- ✓ Cybersecurity and Privacy
- ✓ Human-Centered Security
- ✓ Internet Measurement

What is your most significant publication?

An Investigation of Identity-Account Inconsistency in Single Sign-On
Guannan Liu, Xing Gao, and Haining Wang, in The Web Conference (WWW), Ljubljana, Slovenia, April 2021.

What are you passionate about beyond your professional interests?

- ✓ Cooking
- ✓ Hiking
- ✓ Swimming
- ✓ Photography/Videography
- ✓ Computer Gaming

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

- ✓ Tuktoyaktuk, Canada

Where is the best place you've ever visited?

- ✓ Crater of Diamonds State Park, AR

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

- ✓ Skiing
- ✓ Boating/Kayaking

Tell us something unique about yourself that few people know.

- ✓ I served as a kindergarten principal for three months during the summer of 2018

Ly Malespina

Physics



Where are you from, originally?

- ✓ St. Augustine, Florida

Where were you educated?

- ✓ B.S. in Physics and Philosophy, Rollins College
- ✓ MS and PhD, Physics and Astronomy, University of Pittsburgh

What are some of your most significant work experiences?

- ✓ Teacher-Scholar for the Discipline-Based Science Education Research Center, University of Pittsburgh
- ✓ Senior Lab Teaching Assistant, University of Pittsburgh
- ✓ Served on the American Association of Physics Teachers Committee on Women in Physics

What do you love to teach?

- ✓ Introductory Physics
- ✓ Quantum Mechanics

What research topics most interest you?

- ✓ Equity in Physics Education
- ✓ Motivational Factors and Learning Outcomes

What is your most significant publication?

Malespina, A. and Singh, C. (2022). Gender differences in test anxiety and self-efficacy: why instructors should emphasize low-stakes formative assessments in physics courses. *European Journal of Physics*, 43 035701.

What are you passionate about beyond your professional interests?

- ✓ Cross-Stitching
- ✓ Fantasy Novels
- ✓ Philosophy of ethics, education, and politics
- ✓ Trying new restaurants
- ✓ Traveling

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

- ✓ Kiruna, Sweden

Where is the best place you've ever visited?

- ✓ Tsukuba, Japan

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

- ✓ Wood burning and carpentry

Tell us something unique about yourself that few people know.

- ✓ I took a gap year after high school to live in Sweden

Eric Mayotte

Physics



Where are you from, originally?

- ✓ Fort Collins, CO

Where were you educated?

- ✓ B.S., MS and PhD, Physics
Colorado School of Mines

What are some of your most significant work experiences?

- ✓ Mass Composition Physics
Coordinator, Pierre Auger
Observatory, Malargüe
Argentina
- ✓ Post-Doc, Bergische Universität
Wuppertal, Wuppertal Germany

What do you love to teach?

- ✓ Cosmology, astrophysics and
astronomy
- ✓ Modern Physics

What research topics most interest you?

- ✓ Ultra-high-energy cosmic rays
and neutrinos
- ✓ High-energy particle physics
- ✓ Machine learning
- ✓ Dark matter and modified gravity

What is your most significant publication?

A. Coleman, J. Eser, E. Mayotte, et.
al.

Ultra high energy cosmic rays: The
intersection of the Cosmic and
Energy Frontiers,
Astroparticle Physics Volume 149
standalone issue

What are you passionate about beyond your professional interests?

- ✓ Art
- ✓ Cooking
- ✓ Skiing
- ✓ Hiking
- ✓ Archery
- ✓ Being a father

What are the most unusual places you've ever traveled?

- ✓ Altai, Siberia, Russia
- ✓ Chinese-Vietnam border
- ✓ Summit of Kilimanjaro

Where is the best place you've ever visited?

- ✓ Annapurna Circuit, Nepal

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

- ✓ High dimensional general
relativity
- ✓ Normal dimensional general
carpentry

Tell us something unique about yourself that few people know.

- ✓ I have totaled a vespa at the
Vatican

Erik Menke

Chemistry



Where are you from, originally?

- ✓ Durango, CO

Where were you educated?

- ✓ B.S. in Chemistry, Colorado State University
- ✓ PhD, Chemistry, University of California, Irvine

What are some of your most significant work experiences?

- ✓ Associate Professor, Chemistry, UC Merced
- ✓ Chair, Chemistry and Chemical Biology graduate program, UC Merced

What do you love to teach?

- ✓ Chemistry (except O-chem)
- ✓ Science Teaching Methods

What research topics most interest you?

- ✓ Equity and justice in science classrooms
- ✓ Graduate student sense of belonging
- ✓ Physical electrochemistry

What is your most significant publication?

EJ Menke, MA Thompson, X Xiang, LC Yang, and RM Penner. (2006). Lithographically patterned nanowire electrodeposition. *Nature materials* 5 914-919

What are you passionate about beyond your professional interests?

- ✓ My wife
- ✓ Skiing
- ✓ Golf
- ✓ Hiking
- ✓ Video games
- ✓ Coffee

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

- ✓ The Catacombs of Paris

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?

- ✓ Blacksmithing

Tell us something unique about yourself that few people know.

- ✓ I snuck into a party at Dennis Rodman's house

Aashutosh Mistry

Mechanical Engineering



Where are you from, originally?

- ✓ India

Where were you educated?

- ✓ B.Tech. in Mechanical Engineering, National Institute of Technology, Surat, India
- ✓ M.Tech. in Mechanical Engineering, Indian Institute of Technology, Kanpur, India
- ✓ Ph.D. in Mechanical Engineering, Purdue University, United States

What are some of your most significant work experiences?

- ✓ Postdoctoral Appointee, Joint Center for Energy Storage Research, Argonne National Lab
- ✓ Chair, 2022 Gordon Research Seminar on Batteries

What do you love to teach?

- ✓ Thermodynamics
- ✓ Transport Phenomena
- ✓ Electrochemistry

What research topics most interest you?

- ✓ Electrochemistry
- ✓ Multiphase Flow
- ✓ Phase Change

What is your most significant publication?

A. Mistry, A. Franco, S. Cooper, S. Roberts & V. Viswanathan (2021) How Machine Learning Will Revolutionize Electrochemical Sciences, ACS Energy Lett. 6(4) 1422

What are you passionate about beyond your professional interests?

- ✓ Arts & Literature
- ✓ History
- ✓ Hiking
- ✓ Cooking

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

- ✓ Trieste, Italy

Where is the best place you've ever visited?

- ✓ New Orleans, LA

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

- ✓ German

Tell us something unique about yourself that few people know.

- ✓ I do have life outside work!

Megan Moyer

Chemistry



Where are you from, originally?

- ✓ Marion, IA

Where were you educated?

- ✓ B.S. in Chemistry, Colorado School of Mines '13
- ✓ PhD in Applied Chemistry, Colorado School of Mines '18

What are some of your most significant work experiences?

- ✓ Visiting Assistant Professor, Chemistry Department, Carthage College
- ✓ Assistant Professor, Chemistry Department, The Citadel Military College of South Carolina

What do you love to teach?

- ✓ General Chemistry
- ✓ Solid State Inorganic Chemistry

What research topics most interest you?

- ✓ Chemical education
- ✓ Porous materials (MOFs, mesoporous silica, porous carbon, zeolites)
- ✓ Undergraduate research

What is one of your publications?

Moyer, M. M.; Karakaya, C.; Kee, R. J.; Trewyn, B. G. *In Situ* Formation of Metal Carbide Catalysts, *ChemCatChem*, 2017, 9 (16), 3090-3101.

What are you passionate about beyond your professional interests?

- ✓ Weightlifting
- ✓ Reading
- ✓ Baking
- ✓ My pets

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

- ✓ Nepal

Where is the best place you've ever visited?

- ✓ Glenwood Springs, CO

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

- ✓ Geology

Tell us something unique about yourself that few people know.

- ✓ I was avidly involved in show choir in high school

Adam Olsen

Library



Where are you from, originally?

- ✓ Pittsburg, California

Where were you educated?

- ✓ BA, History, University of Georgia
- ✓ MA History, MLS, Indiana University

What are some of your most significant work experiences?

- ✓ Web and User Experience Librarian, Western Carolina University
- ✓ Web Services Librarian, Kennesaw State University

What do you love to teach?

- ✓ Library user experience and usability studies
- ✓ Web accessibility

What research topics most interest you?

- ✓ Library usability and accessibility
- ✓ AI in libraries

What is your most significant publication?

Olsen, A. "Summon user experience: A study of the Summon laptop and mobile interface." College and University Libraries, 2020.

What are you passionate about beyond your professional interests?

- ✓ Language learning (Italian, Japanese)
- ✓ Hiking
- ✓ Family
- ✓ Creative Writing

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

- ✓ Paestum, Italy

Where is the best place you've ever visited?

- ✓ Rome, Italy

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

- ✓ More writing

Tell us something unique about yourself that few people know.

- ✓ Mixed martial artist

Yamuna Phal

Electrical Engineering



Where are you from, originally?

- ✓ Mumbai, India

Where were you educated?

- ✓ Ph.D. in Electrical & Computer Engineering
University of Illinois Urbana-Champaign (UIUC), Urbana
- ✓ M.S. in Electrical Engineering
California Institute of Technology (Caltech), Pasadena
- ✓ B.Tech. in Electrical Engineering
Indian Institute of Technology (IIT) Roorkee, Roorkee, India

What are some of your most significant work experiences?

- ✓ Failure Analysis Engineer, Finisar Malaysia Pvt. Ltd.
- ✓ Analog Research Design & EMC Engineer, Swedish Institute of Space Physics

What do you love to teach?

- ✓ Capstone Senior Design
- ✓ Optical Imaging Technology

What research topics most interest you?

- ✓ Optical Imaging Technologies for Disease Diagnostics & Space Sensing

What is your most significant publication?

Concurrent Vibrational Circular Dichroism Measurements with Infrared Spectroscopic Imaging (2020)
Analytical Chemistry,
DOI:10.1021/acs.analchem.0c00323 |
Featured, Cover Image

What are you passionate about beyond your professional interests?

- ✓ Hiking
- ✓ Climbing
- ✓ Running

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

- ✓ Å, Norway

Where is the best place you've ever visited?

- ✓ Fjallabak Nature Reserve in Icelandic Highlands

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

- ✓ Painting

Tell us something unique about yourself that few people know.

- ✓ My travel article was published in National Geographic

Cara Phillips

Civil & Environmental Engineering



Where are you from, originally?

- ✓ Littleton, CO

Where were you educated?

- ✓ B.S. Engineering (Civil), Colorado School of Mines
- ✓ M.S. Civil Engineering (Structural), University of Illinois - Urbana-Champaign

What are some of your most significant work experiences?

- ✓ Senior Project Manager at Martin/Martin, Inc
- ✓ Education and Technical Coordinator at Martin/Martin, Inc.
- ✓ Adjunct at Colorado School of Mines
- ✓ Engineering Teacher at STEM School Highlands Ranch

What do you love to teach?

- ✓ Structural Theory
- ✓ Masonry
- ✓ Loads (Wind and Seismic)
- ✓ Steel Design
- ✓ Concrete Design
- ✓ Statics/Mechanics of Materials

What research topics most interest you?

- ✓ Concrete and Masonry Anchorage
- ✓ Effective Teaching Practices

What is your most significant publication?

William J Likos, Ning Lu, Cara Liverant, Ionic Strength Effects on the Flocculation of Behavior of Kaolinite, Engineering Mechanics Conference, May 2000

2016 TMS 402/602 Masonry Code, Voting Member Flexural, Axial and Shear

What are you passionate about beyond your professional interests?

- ✓ Tennis
- ✓ Softball
- ✓ Sports
- ✓ Being a Mom

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

- ✓ Banff

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?

- ✓ More time for tennis

Tell us something unique about yourself that few people know.

- ✓ I was a cheerleader

Rajivasanth Rajasegar

Mechanical Engineering



Where are you from, originally?

- ✓ Puducherry, India

Where were you educated?

- ✓ B. Tech. in Mechanical Engineering, National Institute of Technology, Tiruchirappalli, India
- ✓ MS and PhD in Mechanical Science and Engineering, University of Illinois at Urbana-Champaign, IL, USA

What are some of your most significant work experiences?

- ✓ Post-doctoral Researcher, Combustion Research Facility, Sandia National Laboratories.

What do you love to teach?

- ✓ Thermodynamics
- ✓ Fluid Mechanics
- ✓ Combustion Fundamentals

What research topics most interest you?

- ✓ Combustion dynamics
- ✓ Propulsion and Hypersonics
- ✓ Alternative fuels and decarbonization

What is your most significant publication?

R. Rajasegar, Y. Niki, J.M. García-Oliver, Z. Li, and M.P.B. Musculus, “Fundamental Insights on Ignition and Combustion of Natural Gas in an Active Fueled Pre-Chamber Spark-Ignition System”, *Combustion and Flame*, Vol. 232, 111561 (2021).

What are you passionate about beyond your professional interests?

- ✓ Football (Soccer)
- ✓ Badminton
- ✓ Travelling
- ✓ Cooking

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

- ✓ Key West, Florida

Where is the best place you’ve ever visited?

- ✓ Key West, Florida

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

- ✓ Commercial Pilot License

Tell us something unique about yourself that few people know.

- ✓ I have an irrational fear of heights but I love everything to do with heights :P

Eric Roberts

Geology & Geological Engineering



Where are you from, originally?

- ✓ Glenwood Springs, CO

Where were you educated?

- ✓ B.A. Geology and Environmental Studies, Cornell College
- ✓ M.S. Geology, Univ. of Montana
- ✓ Ph.D. Geology, Univ. of Utah

What are some of your most significant work experiences?

- ✓ Director, Critical Minerals Trailblazer, James Cook Univ.
- ✓ Head of Earth and Environmental Sciences, James Cook Univ.

What do you love to teach?

- ✓ Stratigraphy
- ✓ Paleontology

What research topics most interest you?

- ✓ Sedimentary Basin Analysis
- ✓ Helium Gas Exploration
- ✓ Vertebrate Paleontology

What is your most significant publication?

Roberts, E.M., Stevens, N.J., O'Connor, P.M., Dirks, P.H., Gottfried, M.D., Clyde, W.C., Armstrong, R.A., Kemp, A.I.S., and Hemming, S. 2012. Initiation of the western branch of the East African rift coeval with the eastern branch. *Nature Geoscience* 5:289-294.

What are you passionate about beyond your professional interests?

- ✓ Rock Climbing
- ✓ Golf
- ✓ Parenting

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

- ✓ Falkland Islands

Where is the best place you've ever visited?

- ✓ Antarctica

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

- ✓ Gold Panning/Metal Detecting

Tell us something unique about yourself that few people know.

- ✓ I have helped discover and name six different dinosaurs.

Gabriel Santamaria Botello

Electrical Engineering



Where are you from, originally?

- ✓ Valencia, Venezuela

Where were you educated?

- ✓ B.S. in Electrical Engineering, University of Carabobo, Venezuela
- ✓ PhD in Electrical Engineering, Charles III University of Madrid, Spain

What are some of your most significant work experiences?

- ✓ Research Associate, University of Colorado Boulder
- ✓ Research Assistant, Charles III University of Madrid.

What do you love to teach?

- ✓ Electromagnetics
- ✓ Vector calculus

What research topics most interest you?

- ✓ Nonlinear and quantum optics
- ✓ Microwave and integrated photonics
- ✓ Low-noise mm-wave and THz sensing

What is your most significant publication?

Gabriel Santamaría Botello, Florian Sedlmeir, Alfredo Rueda, Kerlos Atia Abdalmalak, Elliott R. Brown, Gerd Leuchs, Sascha Preu, Daniel Segovia-Vargas, Dmitry V. Strekalov, Luis Enrique García Muñoz, and Harald G. L. Schwefel, “Sensitivity limits of millimeter-wave photonic radiometers based on efficient electro-optic upconverters,” *Optica* 5, 1210-1219 (2018)

What are you passionate about beyond your professional interests?

- ✓ Hiking
- ✓ Cooking
- ✓ Biking

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

- ✓ Maracaibo, Venezuela

Where is the best place you’ve ever visited?

- ✓ New Zealand

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

- ✓ Airplane pilot

Tell us something unique about yourself that few people know.

- ✓ I once piloted a glider.

Prachi Sharma

Electrical Engineering



Where are you from, originally?

- ✓ Rajasthan, India

Where were you educated?

- ✓ B.E. in Electronics and Communication, M.B.M. Engg. College, Raj., India.
- ✓ M.E. in Embedded Systems, BITS Pilani,
- ✓ PhD in Electrical Engg., RPI, Troy, NY.

What are some of your most significant work experiences?

- ✓ Design and Process Engineer at Intel.
- ✓ Teaching Assistant Professor at the University of Denver.

What do you love to teach?

- ✓ Digital Design
- ✓ VLSI Design

What research topics most interest you?

- ✓ Fabrication of nanomaterials
- ✓ Semiconductor devices and sensors

What are you passionate about beyond your professional interests?

- ✓ Reading

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

- ✓ Coorg, Karnataka, India

Where is the best place you've ever visited?

- ✓ Udaipur, Rajasthan, India

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

- ✓ Learn a new language.

Yangming Shi

Civil & Environmental Engineering



Where are you from, originally?

- ✓ Qinhuangdao, China

Where were you educated?

- ✓ B.S. in Civil Engineering, Ningbo University
- ✓ M.S, Construction, Texas A&M University
- ✓ Ph.D. in Civil Engineering, University of Florida

What are some of your most significant work experiences?

- ✓ Assistant Professor, Department of Civil, Construction, and Environmental Engineering at the University of Alabama

What do you love to teach?

- ✓ Construction Methods
- ✓ Construction Estimating
- ✓ Building Information Modeling
- ✓ Human Factors

What research topics most interest you?

- ✓ Workforce development in construction via VR/AR
- ✓ Disaster risk communications
- ✓ Human-robot collaborations in construction

What is your most significant publication?

Shi, Y., Du, J., Ahn, C. R., & Ragan, E. (2019). Impact assessment of reinforced learning methods on construction workers' fall risk behavior using virtual reality. *Automation in Construction*, 104, 197-214.

What are you passionate about beyond your professional interests?

- ✓ Cooking
- ✓ Traveling
- ✓ Hiking
- ✓ Running
- ✓ Being a father
- ✓ Playing with my dog

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

- ✓ San Angelo, Texas

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?

- ✓ Ski

Tell us something unique about yourself that few people know.

- ✓ I used to be a writer.

Syd Slouka
*Civil & Environmental
Engineering*



Where are you from, originally?

- ✓ Littleton, CO

Where were you educated?

- ✓ B.S. and M.S. in Civil and Geotechnical Engineering, Colorado School of Mines
- ✓ Ph.D., Earth Resources Development Engineering, Colorado School of Mines

What are some of your most significant work experiences?

- ✓ Mine Ventilation Engineer, Caribou/Cross Mines with Nederland Mining Consultants
- ✓ Climbing instructor lead for Girls Lead for Life program with the non-profit Women's Wilderness

What do you love to teach?

- ✓ Statics
- ✓ Mine Ventilation
- ✓ Climbing

What research topics most interest you?

- ✓ Effective teaching practices
- ✓ Factors that impact learning
- ✓ Dust mitigation and suppression techniques in underground environments

What is your most significant publication?

Slouka, S., Sidrow, E., C. Tsai, and J. Brune. "Comparing respirable dust characteristics from full scale cutting tests of three rock samples with conical picks at three stages of wear." *Underground Ventilation*. CRC Press, 2023. 264-273.

What are you passionate about beyond your professional interests?

- ✓ Climbing
- ✓ Trail running / hiking
- ✓ Chalking
- ✓ Playing guitar
- ✓ Playing board games
- ✓ Sailing
- ✓ Being an auntie

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

- ✓ Nausori Highlands, Fiji

Where is the best place you've ever visited?

- ✓ Indian Peaks, Colorado

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

- ✓ Learn how to sail large boats about 40 feet or more in length

Tell us something unique about yourself that few people know.

- ✓ I love to write and come up with songs on the guitar and ukulele

Jeremy Suiter

Economics & Business



Where are you from, originally?

- ✓ Cobleskill, NY

Where were you educated?

- ✓ B.A. in International Relations/Spanish, BYU
- ✓ M.B.A., Weber State University
- ✓ Ph.D. in Strategic Management, University of Pittsburgh

What are some of your most significant work experiences?

- ✓ Led Study Abroad trips to (Rome/Florence) Italy, (Paris) France, and (Frankfurt/Hof) Germany
- ✓ Created elective course in Business Ethics at the Base of the Pyramid (extreme poverty)

What do you love to teach?

- ✓ International Business
- ✓ Business Ethics
- ✓ Corporate Finance
- ✓ Strategic Management capstone

What research topics most interest you?

- ✓ International business ethics
- ✓ Poverty alleviation
- ✓ Social entrepreneurship

What are you passionate about beyond your professional interests?

- ✓ Travel & Languages
- ✓ Arts & Culture
- ✓ Camping, Hiking, Boating
- ✓ Animals & Nature
- ✓ Gaming (TTRPGs)
- ✓ Family

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

- ✓ Catacombs in Paris, France

Where are the top 5 best places you've ever visited?

- ✓ Anywhere in Chile
- ✓ Juneau, Alaska
- ✓ Rome, Italy
- ✓ Great Barrier Reef, Australia
- ✓ Machu Picchu, Peru



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

- ✓ Write a novel
- ✓ Learn to speak Mandarin

Tell us something unique about yourself that few people know.

- ✓ My wife and I met as English (EFL) teachers in Taipei, Taiwan

Tony Vandenberg

Engineering, Design, & Society



Where are you from, originally?

- ✓ Bodegraven, The Netherlands

Where were you educated?

- ✓ Lyceum, Gouda, Netherlands.
- ✓ BS and MS in Industrial Engineering, Purdue University.
- ✓ MA in Christian Ministries, Asbury Theological Seminary.

What are some of your most significant work experiences?

- ✓ Manager of Logistics, KBR.
- ✓ Program Manager, Operational Excellence, KBR.
- ✓ Hypersensitive Hearer, Capstone Design PA, CO school of Mines.

What do you love to teach?

- ✓ Capstone Design.
- ✓ Design thinking teaching methods.

What research topics most interest you?

- ✓ How transients affect design.
- ✓ Awareness of factors that impact formation of the whole person.
- ✓ The effect of prototyping and systems feedback on accelerating learning.

What is your most significant publication?

Hood S. J., Amamoto A. E. B., Vandenberg, A. T. (IBM TJW research center). A modular structure for a highly detailed model of semiconductor manufacturing. Winter Simulation Conference (1989): 811-817.

What are you passionate about beyond your professional interests?

- ✓ Building things, cars, gadgets.
- ✓ Surprising young people with what they're capable of.
- ✓ Learning from experts.
- ✓ Land care for fire mitigation.
- ✓ Mountain biking.
- ✓ Being a father.

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

- ✓ Barrow Island, off west coast of Australia.

Where is the best place you've ever visited?

- ✓ Verbier, Switzerland.

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

- ✓ Start a vocational school or study jazz piano.

Tell us something unique about yourself that few people know.

- ✓ I learned to fly before I learned to drive.

Bill Zisch

Mining



Where are you from, originally?

- ✓ Chicago, New Jersey, Southern California, Northern Colorado;
So I claim Colorado

Where were you educated?

- ✓ B.S. in Mining Engineering, Colorado School of Mines
- ✓ MBA Wharton School of the University of Pennsylvania
- ✓ School of Hard Knocks – Industry 40+yrs

What are some of your most significant work experiences?

- ✓ Conflict Resolution and Production Expansion in Peru
- ✓ Develop, Construct and Commissioning of \$470M+ Sustainable project in Ghana
- ✓ Led project development culminating in pouring of first gold three times in three countries/states (Ghana, Mexico, Nevada)
- ✓ 18 years as Corporate officer (VP Operations, COO and CEO) in four companies (both majors and juniors)
- ✓ Past Chair of Colorado Mining Association

What do you love to teach?

- ✓ Fundamentals of the Mining Industry and the need for Responsible Mining; to students and new entrants into this arena

What research topics most interest you?

- ✓ Development of a Dynamic Supply/Demand Model to evaluate the responsible sourcing of Minerals to meet global energy requirements

What is your most significant publication?

“Integrating Corporate Citizenship into NMC’S Risk Assessment and Management Process: A Case of Newmont Mining in Ghana”, (2006)
With David B. Cox & R. Bruce Hutton of Denver University

What are you passionate about beyond your professional interests?

- ✓ Fly Fishing
- ✓ Hiking/Ultralight Backpacking/Trekking
- ✓ Alpine Skiing, Skate Skiing
- ✓ Family

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

- ✓ Zarafshan, Uzbekistan (due to stark, hopeless look on the face of the local people)
- ✓ Amazon River and Galapagos Islands

Where is the best place you’ve ever visited?

- ✓ National Parks in the U.S. (always great)
- ✓ Serengeti during the wildebeest migration

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

- ✓ Serving others
- ✓ Being content

Tell us something unique about yourself that few people know.

- ✓ Spent 2 years as the Human Resources Manager at an Operating Site
- ✓ First finisher from Nevada in 1993 Boston Marathon (not fast – just few from NV!)



WELCOME!



COLORADO SCHOOL OF MINES.