COLLEGE OF ENGINEERING

NEW FACULTY | 2018-19

UNIVERSITY OF NEBRASKA - LINCOLN

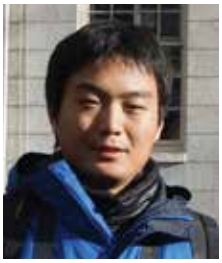
BIOLOGICAL SYSTEMS ENGINEERING
Geng Bai
Curtis Tomasevicz
Heidi Diefes-Dux

COMPUTER SCIENCE & ENGINEERING
Hau Chan
Bonita Sharif

THE DURHAM SCHOOL OF ARCHITECTURAL ENGINEERING & CONSTRUCTION
Philip Barutha
Iason Konstantzos
Kelli Herstein

ELECTRICAL & COMPUTER ENGINEERING
Wei Bao
Leimin Deng

MECHANICAL & MATERIALS ENGINEERING
Eric Markvicka
Keegan Moore
Robert Wilhelm



GENG BAI

Research Assistant Professor
Biological Systems Engineering
East Campus

B.E., Hydraulic and Hydro-power Engineering, China Agricultural University
M.E., Agricultural Soil & Water Engineering, China Agricultural University
Ph.D., Environmental Science, Niigata University

Previous Experience

Soil-Plant-Environment monitoring; Center pivot irrigation; Pesticide spraying; High-throughput plant phenotyping

Research

Daily management and development of UNL Field Plant Phenotyping Facility (Spidercam); High throughput plant phenotyping in field and greenhouse environment

WEI BAO

Assistant Professor
Electrical & Computer Engineering
City Campus

B.A., Physics (minor in Chemistry), Peking University
M.S., Mechanical Engineering (minor in Electrical Engineering), UCLA
Ph.D., Materials Science and Engineering (minor in Electrical Engineering), University of California, Berkeley

Previous Experience

Worked in nanoscale spectroscopic investigations. Received several awards: MRS Graduate Student Gold Award, Dorothy M. and Earl S. Hoffman Scholarships, Ross N. Tucker Memorial Award and a R&D 100 Award.

Research

Focuses on polaritonics lasing devices

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PHILIP BARUTHA

Assistant Professor
Durham School of Architectural Engineering and Construction
City Campus

B.S., Civil/Construction Engineering, Montana State University
M.S./Ph.D., Civil/Construction Engineering and Management, Iowa State University

Previous Experience

12 years in project management and engineering.
Project Manager for Mortenson Construction in the Renewable Energy Group.

Research

Alternative project delivery to include integrated project delivery and public private partnerships, renewable and sustainable energy and transportation asset management

LEIMIN DENG

Research Assistant Professor
Electrical & Computer Engineering
City Campus

B.S., Optical Information Sciences and Technology, Harbin Institute of Technology
M.S., Physical Electronics, Huazhong University of Science & Technology
Ph.D., Physical Electronics, Huazhong University of Science & Technology

Research

Laser extreme manufacturing technology and equipment; Cross-scale laser micro/nano machining; Optical system design; 3D printing of metal

HAU CHAN

Assistant Professor
Computer Science and Engineering
City Campus

B.S., Computer Science and Mathematics, College of Charleston, S.C.
Ph.D., Computer Science, Stony Brook University, New York

Previous Experience

Postdoctoral fellow in the Laboratory for Innovation Science at Harvard (a joint lab with the Harvard School of Engineering and Applied Sciences, Business School, and Medical School) - will continue to be an affiliated member of the lab; Postdoctoral summer fellow at the USC Center for Artificial Intelligence in Society; Postdoctoral research associate (postdoc) at Trinity University.

Research

Computational Game Theory, mechanism design, algorithms, data/graph mining, machine learning, discrete mathematics

HEIDI DIEFES-DUX

Professor
Biological Systems Engineering
East Campus

B.S., Food Science, Cornell University
M.S., Food Science, Cornell University
Ph.D., Agricultural & Biological Engineering - Food Processing Engineering, Purdue University

Previous Experience

Professor of Engineering Education and First-Year Engineering course instructor and curator at Purdue University; Fulbright-Colombia Specialist Grant; co-author of Models and Modeling in Engineering Education

Research

Engineering education, specifically development, implementation and assessment of authentic engineering activities (e.g. mathematical modeling, design) in undergraduate settings, translation of current technical research outputs to K-16 classroom settings, and learning objective based assessment strategies

2018–19 NEW FACULTY

KELLI HERSTEIN

Asssistant Professor of Practice
Durham School of Architectural Engineering and Construction
Scott Campus

B.S., Industrial Engineering, University of Nebraska-Lincoln
M.S., Industrial and Management Systems Engineering, University of Nebraska
Ph.D., Engineering (Construction Engineering and Management), University of Nebraska

Previous Experience

Post Doctorate Research Associate, The Durham School of Architectural Engineering and Construction

Research

Occupational safety and health, occupational ergonomics, human fatigue and performance, lean construction, transportation and logistics, radio frequency identification

IASON KONSTANTZOS

Assistant Professor
Durham School of Architectural Engineering and Construction
Scott Campus

Diploma, Civil Engineering, National Technical University of Athens Greece
M.S., Design and Construction of Underground Structures, National Technical University of Athens, Greece
Ph.D., Civil Engineering, Purdue University

Research

Human comfort in the built environment, building systems and controls, lighting and daylighting, building envelope, building energy modeling and simulation

ERIC MARKVICKA

Assistant Professor
Mechanical & Materials Engineering
City Campus

B.S., Mechanical Engineering, University of Nebraska-Lincoln
M.S., Mechanical Engineering, University of Nebraska-Lincoln
M.S., Robotics, Carnegie Mellon University
Ph.D., Robotics, Carnegie Mellon University

Previous Experience

Researcher at the Air Force Research Laboratory, NASA Jet Propulsion Laboratory, NASA Johnson Space Center, and Honeybee Robotics.

Research

The intersection of computer and material science to transform how materials interact with the human body and the world around us

KEEGAN MOORE

Assistant Professor
Mechanical & Materials Engineering
City Campus

B.Sc., Mechanical Engineering, University of Akron
Ph.D., Mechanical Engineering, University of Illinois at Urbana-Champaign

Research

Nonlinear dynamics, theoretical and experimental vibrations, system identification, non-reciprocal acoustics, data-driven modeling and identification, advanced signal processing, experimental mechanics

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BONITA SHARIF

Assistant Professor
Computer Science & Engineering
City Campus

B.S., Computer Science, Cyrus College, Nicosia, Cyprus
M.S., Computer Science, Kent State University, Kent, Ohio
Ph.D., Computer Science (specializing in Software Engineering), Kent State University, Ohio

Previous Experience

10 years of experience conducting empirical studies including the use of eye tracking equipment. Received the NSF Career award and the NSF CRI award related to empowering software engineering with eye tracking. Received the NCWIT Undergraduate Research Mentoring award for mentoring female students.

Research

Software engineering, eye tracking and biometrics, empirical studies, program comprehension, human computer interaction, software traceability, software visualization

CURTIS TOMASEVICZ

Assistant Professor of Practice
Biological Systems Engineering
East Campus

B.S., Electrical Engineering (Astrophysics minor), University of Nebraska-Lincoln
M.S., Electrical Engineering, University of Nebraska-Lincoln
Ph.D., Biological Systems Engineering, University of Nebraska-Lincoln

Previous Experience

Lecturer, College of Engineering, University of Nebraska-Lincoln

USA Bobsled and Skeleton (2004-14)

Research

Power output of jumping and other human movement; biomechanic modeling techniques for injury analysis; power systems equipment replacement scheduling

ROBERT WILHELM

Kate Foster Professor
Mechanical & Materials Engineering / Vice Chancellor for Research & Economic Development
City Campus

B.S., Industrial Engineering, Wichita State University
M.S., Industrial Engineering, Purdue University
Ph.D., Mechanical Engineering, University of Illinois

Previous Experience

Vice Chancellor for Research and Development, University of North Carolina at Charlotte

Executive Director, Charlotte Research Institute

Research

Precision engineering, virtual manufacturing and software frameworks for integrated measurement processes

University of Nebraska Lincoln

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