Instructions

**Faculty Mentors:**
1. If your name is not listed and you wish to be added, please complete a Mentor Submission Form, link found on the Mentor Match home page.
2. If you would like to remove your name, please email cur@uno.edu

**Undergraduate Students:**
1. On the next page, click on the link to the department to which you would like search for faculty.
2. From the list of faculty in that department, determine which faculty you would be interested in working with.
3. Complete a Mentor Match Request Form, link found on Mentor Match home page.
I. College of Business
   A. Department of Management and Marketing
   B. Department of Economics and Finance

II. College of Engineering
   A. Department of Civil and Environmental Engineering
   B. Department of Electrical Engineering
   C. Department of Mechanical Engineering
   D. School of Naval Architecture and Marine Engineering
   E. Engineering Management Program

III. College of Liberal Arts, Education and Human Development
   A. Department of Anthropology & Sociology
   B. Department of Curriculum, Instruction and Special Education
   C. Department of Educational Leadership, Counseling, and Foundations
   D. Department of Film and Theatre Arts
   E. Department of Planning and Urban Studies
   F. Department of Political Science

IV. College of Sciences
   A. Department of Biological Sciences
   B. Department of Chemistry
   C. Department of Computer Science
   D. Department of Earth & Environmental Sciences
College of Business

I. Department of Management and Marketing

Name: Dr. Woohyun Cho
Interests: Empirical studies of logistics, supply chain management and (service) operations management
Student projects: "supply chain in the US wine industry", "service operation quality in the airline industry"

Name: Dr. Dong-Jun Min
Interests: Consumer information processing; Learning, memory and perception; Judgment and decision making under risk
Student projects: Selective processing of product features in advertising; the influence of sequential marketing communications on consumer behavior

Name: Dr. Kyeong Sam Min
Interests: Marketing strategy; Consumer decision making; Cross-cultural psychology
Student projects: “Service failure and recovery strategies”; “Irrational consumer choice”; “Persuasive storytelling”
Web page: http://www.uno.edu/coba/management-marketing/faculty/Min.aspx

Name: Dr. Cherie Trumbach
Interests: Text Data Mining; Knowledge Management; Innovation
Student projects: Analyze how the Intellectual landscape on the Gulfcoast has changed in the time following Katrina; Analyze twitter hashtags after setting up Rapidminer to do so.

Name: Dr. Donald Zimmerman
Interests: Healthcare management and policy; Public health; Global health
Student projects: Healthcare system improvement; Community health improvement; Person-focused healthcare; Teamwork and communication; Disruptive innovation

II. Department of Economics and Finance

Name: Mark Rosa
Interest: Banking. Investments.
Student Projects: Banking metrics, comparisons, financial ratios, etc.
Web page: www.markrosa.com

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College of Engineering

I. Department of Civil and Environmental Engineering

Name: Dr. Malay Ghose-Hajra, P.E.
Interests: Coastal Restoration and Coastal Protection, Energy Geotechnology and Energy Foundations, Coastal infrastructure (levees and floodwalls), Sustainable development, Geotechnical and Geoenvironmental Engineering, characterization of coastal sediments, coastal and hydraulic structures
Student projects: characterization of coastal sediments used in marsh creation projects, sustainability of coastal development, numerical modeling of coastal processes, evaluation of coastal and hydraulic structures
Web page: http://www.uno.edu/coe/civil-environmental-engineering/faculty/index.aspx

Name: Bhaskar Kura
Interests: Air quality monitoring, modeling, and management; greenhouse gas (GHG) emissions management; energy efficiency; world ports and sustainability; software technologies for the management of the environment, public health, and worker health
Student projects: Air/odor monitoring at the wastewater treatment plants, landfills, and other sources; air monitoring at the critical traffic sources/intersections; air dispersion modeling; software development

II. Department of Electrical Engineering

Name: Dr. Edit Kaminsky Bourgeois
Interests: Digital communications, Multidimensional modulation, Error correction coding, Neural networks
Student projects: Digital communications system performance analysis; Neural network applications (medical imaging, communications, controls, etc.)
Web page: http://fs.uno.edu/ejbourge/

Name: Dr. Huimin Chen
Interests: Data fusion, target detection and tracking, optimization, sensor management, machine learning and data mining
Student projects: Nonlinear filtering for tracking a maneuvering target; Optimizing decision fusion with practical budget constraint; Battery prognostics and health management; Distributed estimation for power system and smart grid

Name: Jeffrey Gray
Interests: Autonomous Robotics
Student projects (examples only): Navigational design and programming: High performance drive systems; Imaging and image processing; Sensor and computer networking
**Name:** Prof. Kim Jovanovich  
**Interests:** telecommunications, optical communications, fiber optic sensing and fiber optic illumination  
**Student projects (examples only):** (1) Develop optical sensors to measure a variety of situations including temperature, presence of liquids, gases, etc. (2) design and build atmospheric optical communications systems for voice/music (3) design and build fiber optic communications systems supporting digital voice systems (4) Using interferometry measure quality of fiber optic connector endfaces.

### III. Department of Mechanical Engineering

**Name:** Professor Ting Wang  
**Interest:** General thermal-fluid science and engineering, clean energy, power plants, jet engines, gas turbines, combustion, emissions, coal gasification, biopower, polygeneration, drag reduction, enhanced cooling on micro-structured surfaces, mist/steam cooling, and CCHP (combined cooling, heating, and power).  
**Potential Projects:** (a) Application of using chemical looping to capture CO2 to reduce emissions from industrial plants such as power plants, chemical and petrochemical plants, cement plants, etc.  
(b) An innovative approach to compress natural gas (NG) and hydrogen for NG cars and fuel-cell cars.  
(c) Use computational fluid dynamics (CFD) to design high-efficient and low-emissions boilers and gasifiers.  
(d) Cooling enhancement for paper industry.  

### IV. School of Naval Architecture and Marine Engineering

**Name:** Xiaochuan (Vincent) Yu, Ph.D., Assistant Professor  
**Research Interests:** Ship/offshore platforms motions and responses; cable dynamics (mooring, riser, pipeline, etc.); FEM analysis of ship and offshore structures; smart structures, etc.  
**Student Projects:**  
1. Composite Mooring Cables for Offshore Wind Turbines  
2. Squall Mooring System Design  
3. Study on the Dropped Objects in Offshore Engineering  

### V. Engineering and Management Program

**Name:** Dr. Syed Adeel Ahmed  
**Research Interests:** Engineering Management, Service Operations Management, MIS; TQM Decision Sciences & Statistics/Quantitative Methods  
**Student Projects:** Quality Improvement; IT Project Management; Business of IT  

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College of Liberal Arts, Education and Human Development

I. Department of Anthropology & Sociology

Name: Dr. D. Ryan Gray
Interests: Urban historical archaeology (specializing in New Orleans), public housing, race and segregation; Spiritual churches and African-American religious movements; Storyville; Native contacts in Colonial era
Student Projects: Projects: mapping and coding census data for Storyville addresses; analyzing artifacts from 810 Royal Street dig in French Quarter; cataloging and digitizing records and collections from Early Woodland Big and Little Oak Island sites; managing and conserving artifact collections from large data recovery in Mid-City New Orleans in new curation lab

Name: Dr. Steve Striffler
Interests: Latin America and Latin American immigration into the United States. US-Latin American relations. Labor, human rights, social movements, mining, natural resources, food politics, feminism, socialism, US imperialism, anti-imperialism, etc.
Student Projects: very open.

II. Department of Curriculum, Instruction and Special Education

Name: Paul T Bole, Ed.D.
Interests: Teacher preparation, general educator and special educator preparation, high incidence disabilities, classroom management, English Language Learners, academically gifted programming, urban school reform, secondary social studies, qualitative and quantitative research
Student projects: Literacy Alive Project where UNO students are trained to go to Orleans Parish Prison OR one of several K-12 public schools to provide various literacy tutoring. (2008-present)
Faculty web page: http://www.uno.edu/coehd/special-education-habilitative-services/faculty/paul-bole.aspx

III. Department of Educational Leadership, Counseling, and Foundations

Name: Marc Bonis, Ph.D., Assistant Professor – HPHP Program
Interests: Research interests are in the areas of physical activity and nutrition and how they relate to bone growth, obesity, osteoporosis and chronic disease.
Student Projects: Functional Movement System Assessments, Bioenergetic physical activity “cross-over” study, and human basic/acidity study
Name: Tammy Lewis Wilborn, Ph.D.
Interests: My research interests involve the use of qualitative methodology to examine counseling issues related to multicultural counseling competency, social justice advocacy, child and adolescent trauma, and mental health counseling for underserved populations.
Student Projects: Examining perceptions of counseling services in New Orleans and surrounding area; Black female counselor educator experiences in predominantly White institutions

IV. Department of Film and Theatre Arts

Name: Laszlo Fulop
Interests: Documentary and Short Film Production, Script Analysis, Video Writing, History of Documentary, Screenwriting
Student Projects:
I am working on a documentary film about creativity and aging. The film is based on interviews with local (or visiting) creatives (artists, musicians, chefs, writers, architects, Mardi Gras Indians, choreographers and dancers, etc.) older than 60.
The student worker
- would help in producing the film, especially by
- finding interview subjects for the film
- researching the career of these individuals and incorporating these research findings into the interview questions
- scheduling interviews
- etc.
Preferably, but not necessary, the student worker
- would help in filming the interviews as a production assistant or even as a b-camera operator

V. Department of Planning and Urban Studies

Name: James Amdal
Interests: Streetcar history and development in New Orleans. How streetcars helped to shape New Orleans' urban form form 1835 to 1935. Role of streetcars in post-Katrina recovery.
Student projects: Is the new North Rampart streetcar contributing to revival of adjacent real estate and businesses? How has the Loyola Streetcar served as a real estate catalyst for adjoining real estate? Quantify the changes.
Name: Michelle M. Thompson, PhD, GISP’ - Associate Professor

Interests: citizen science: using crowdsourced data and spatial information technology to evaluate urban quality of life issues; affordable housing; community & economic development; applied geographic information systems; historic preservation.

Student Project Topics: conduct biographic research on influential women Louisiana history then create spatial map stories related to their historic life in New Orleans; participate in the applied participation geographic information systems (PGIS) project in the French Quarter by providing crowdsourced property survey data to evaluate the current condition, historic rating and use; assist with evaluating the implications of affordable tiny house' dwellings with historic design standards based on current zoning ordinances and property value assessments in New Orleans; conduct research on the effectiveness of the City of New Orleans place-based development strategy and blight remediation policy used to build affordable housing.

Web page: http://works.bepress.com/michelle_m_thompson/

Name: Tara Tolford

Interests: Pedestrian and Bicycle planning; Transit planning; Transit oriented development; Sustainable transportation; Complete streets policy and design

Student projects: Pedestrian or bicycle safety audits; non-motorized data collection and management; policy research and advocacy; corridor/intersection studies; international active transportation policy and design

VI. Department of Political Science

Name: Alessandra Jerolleman

Interests: privatization; hazard mitigation; emergency management; natural disasters; non-profit leadership; collaboration

Student projects: the role of the private sector in post-disaster recovery; cross-sector partnerships; hazard mitigation
College of Sciences

I. Department of Biological Sciences

Name: Charles Bell
Web Page: www.phylodiversity.net/cbell

Name: Michael Poirrier
Project description: Help with the analysis of benthic invertebrate samples from Lake Pontchartrain and the analysis of food items in the esophagus and proventriculus in lesser scaup ducks from Lake Pontchartrain.
Web Page: https://www.researchgate.net/profile/Michael_Poirrier

II. Department of Chemistry

Name: Steve Rick
Project title: Computational studies of aqueous, ionic, biological and polymeric systems.
Project description: Recent advances in algorithm development and computer architecture have greatly increased the ability of computational methods to play a major role in chemistry, enabling computer simulations to provide valuable insight into the structure and dynamics of materials. Our lab is interested in a range of systems, from both aqueous and non-aqueous liquids to biological systems. These studies include biological ion channels, stimuli responsive polymers, and ionic liquids.
III. Department of Computer Science

Name: Irfan Ahmed
Interests: Cybersecurity
Student projects: Cybersecurity of a cloud computing environment, and cybersecurity of critical infrastructure involving industrial control systems
Web page: cs.uno.edu/~irfan

Name: Shaikh Arifuzzaman
Interests: Big Data Mining and Analysis, Graph (Network) Analytics, Parallel Algorithms, High Performance Computing (HPC), Large-scale Scientific Computing.
Student projects: Mining and Analysis of Large Social Networks (e.g., Facebook, Twitter); Biology-inspired Data Mining; Designing Parallel Algorithms for Scalable Mining; Mining Time-stamped Network Data.
Web page: www.cs.uno.edu/~arif/

Name: Stephen G. Ware
Interests: - Artificial Intelligence for generating and adapting stories
- Computational models of how people tell and understand stories
- Video games
- Training simulations
- Intelligent tutoring systems
- Planning
Student projects: - Building a simple video game to teach or assess basic skills
- Carrying out an online study of how people make choices in interactive stories
- Building web-based tools for collecting and analyzing data on how people play video games
- Building simple video games with interactive stories
Web page: http://nil.cs.uno.edu

Name: Minhaz F. Zibran
Interests: Software Engineering with particular focus on source code analysis and manipulation, empirical studies, tool support for aiding software development and maintenance. Program Comprehension
Student projects: Code Clone Detection, Clone Visualization, Code obfuscation
Web page: http://www.cs.uno.edu/~zibran
IV. Department of Earth & Environmental Sciences

**Name:** Martin O’Connell

**Interests:** The Nekton Research Laboratory (NRL) has many potential undergraduate research projects for students. Our research interests include studying the ecology of local freshwater and marine fishes with the hopes of improving the management and conservation of these species. The NRL has a history of recruiting undergraduate researchers and volunteers, some of whom continue on as graduate students either in the NRL itself or elsewhere.

**Student Projects:**
- Processing and identification of larval fishes and invertebrates as related to measuring their responses to possible settlement cues;
- Assessing the interaction of non-native Rio Grande cichlids (Herichthys cyanoguttatus) and native fishes in Bayou St. John and City Park;
- Determining if Louisiana populations of sheepshead minnows (Cyprinodon variegatus) practice inter- and intra-species cleaning behavior or lepidophagy;
- A survey for populations of southern redbelly dace (Phoxinus erythrogaster) in streams of Louisiana’s Florida parishes;
- Recapture of radio tagged red drum (Sciaenops ocellatus) from Bayou St. John for growth and otolith analyses;
- A survey for juvenile tarpon (Megalops atlanticus) and assessment of potential habitats in southeastern Louisiana; and
- Surveying for non-native channeled apple snails (various species) in southeastern Louisiana.

**Web page:** [http://www.uno.edu/nekton-research-laboratory/](http://www.uno.edu/nekton-research-laboratory/)