## Rubi Quiñones, Ph.D.

Assistant Professor Computer Science Department Southern Illinois University Edwardsville 61 Circle Drive Edwardsville, Illinois 62026

Work Phone: (618) 650-2482 Email: rquinon@siue.edu Personal Website: cs.siue.edu/~rquinon Research Lab Website: quinoneslab.cs.siue.edu

#### ACADEMIC APPOINTMENT

## **Southern Illinois University Edwardsville (SIUE)** *Assistant Professor, Computer Science Department*

Edwardsville, IL 2022-Current

#### **EDUCATION**

#### **University of Nebraska-Lincoln (UNL)**

Lincoln, NE May 2022

Ph.D., Engineering: Computer Engineering - Computer Science
Dissertation: Accurate Cosegmentation in High-Throughput and
Multiple Feature Plant Image Sequences in Plant Phenotyping
Advisors: Ashok Samal, Sruti Das Choudhury, and

Francisco Muñoz-Arriola, Christopher Bohn, Tala Awada, Hongfeng Yu

#### **University of Texas-Rio Grande Valley (UTRGV)**

Edinburg, TX

B.S., Computer Engineering

December 2016

#### 1. TEACHING

### **Courses Taught**

· · · · · · · · · · · · · · · · · · ·	
• CS 490/590 Computer Vision, 9 students	Spring 2024
• CS 45/596 Design & Analysis of Algorithms, 26 students	Spring 2024
• CS 599 Master's Thesis, 1 student	Spring 2024
• CS 495 Independent Study, 5 students	Spring 2024
CS 595 Independent Study, 1 student	Spring 2024
• CS 490/590 Computer Vision, 12 students	Fall 2023
• CS 490/590 Digital Image Processing, 11 students	Fall 2023
• CS 456/596 Design & Analysis of Algorithms, 28 students	Fall 2023
• CS 599 Master's Thesis, 2 students	Fall 2023
CS 596 Master's Project, 1 student	Fall 2023
• CS 495 Independent Study, 5 students	Fall 2023
• CS 590 Computer Vision, 9 students	Spring 2023
• CS 490/590 Digital Image Processing, 15 students	Spring 2023
• CS 599 Master's Thesis, 1 student	Spring 2023
• CS 596 Master's Project, 3 students	Spring 2023
• CS 595 Independent Study, 2 students	Spring 2023
• CS 490/590 Computer Vision, 19 students	Fall 2022
CS 590 Computer Vision, 17 students	Fall 2022
CS 595 Independent Study, 2 students	Fall 2022

#### **Mentoring and Advising MS Thesis Chair** Sreeja Cheekireddy Fall 2023 & Spring 2024 Spring 2023 & Spring 2024 Syeda Mariah Banu **MS Project Chair** Fall 2023 & Spring 2024 Likith Kolassani Spring 2023 & Fall 2023 Ananda Vuda Spring 2023 & Fall 2023 Shriya Santoshi Devulapally Spring 2023 & Fall 2023 Sainath Talluri **Independent Study (Master's Proposal Development)** Sumitra Srestha Spring 2024 Sreeja Cheekireddy Spring 2023 • Likith Kolassani Spring 2023 Fall 2022 • Shriya Santoshi Devulapally Sainath Talluri Fall 2022 **Independent Study (Undergraduate Proposal Development)** Jason Kattenbraker Spring 2024 Fall 2023 & Spring 2024 Joseph Haenel • Logan Nitzsche Fall 2023 & Spring 2024 Fall 2023 & Spring 2024 • Caleb Sutton Fall 2023 & Spring 2024 • Prassidhi Upadhyay **Committee Member** Ethan Boulanger, MS Project. "Optimizing the fit of an average 3D heart Spring 2023 model to 3D MRI image data for segmentation of cardiac structures." Madhuri, Thallam, MS Project. "Traffic Analysis and Severity Prediction Fall 2022 using Machine Learning Algorithms." **Undergraduate Research Creative Activities (URCA)** • Caleb Sutton, "DA3-BES+: A Multi-Agent Simulation with Fall 2023 & Spring 2024 Population Dependent Behavioral Features." [In Submission] • Prasiddhi Upadhyay, "Artificial Intelligence in Resilience Fall 2023 & Spring 2024 Assessments and Social-Ecological Systems." [In Submission] Joseph Haenel, "Comprehensive Study of Deep Learning and Fall 2023 & Spring 2024 Machine Learning Algorithms on Leaf Diseases in Sorghum and Maize." Fall 2023 & Spring 2024 Logan Nitzsche **Undergraduate Senior Project** • Stanley Trevino, Trever Neumeister, Edward Nooney, Spring 2023 & Fall 2023 Nathaniel Dyer, CS 499. "Parsing G2F Data." [In Submission]

### **Mentorship Outside SIUE**

"Plant-Eye." [In Submission]

Anthony Maliszewski, Ruixin Wang, Cody Wood, CS 499.

Spring 2023 & Fall 2023

• Benjamin Wingerter, *Independent Study*. "DA³-BES: Exploring Complex Adaptive Systems Using Dynamic Multi-Agent Models for Honey Bee Colony Environment Simulation." [**Published**]

#### 2. RESEARCH

#### **Publications**

#### **Published**

- Quiñones, Rubi. "OSC-CO<sup>2</sup>: Coattention and Cosegmentation Framework for Plant State Change with Multiple Features." Frontiers in Plant Science 14: 1211409. <a href="https://doi.org/10.3389/fpls.2023.1211409">https://doi.org/10.3389/fpls.2023.1211409</a>
- Benjamin Wingerter, **Rubi Quiñones**, and Dominic Cristiano. August 2023. DA<sup>3</sup>-BES: Exploring Complex Adaptive Systems Using Dynamic Multi-Agent Models for Honey Bee Colony Environment Simulation. Teaching Issues and Experiments in Ecology, Vol. 19: Experiment #1.
- Cox, M., Harrison, H., Partelow, S., Curtis, S., Elser, S., Hammond Wagner, C., ..., **Rubi Quiñones**, & Whittaker, B. How academic podcasting can change academia and its relationship with society: a conversation and guide. Frontiers in Communication, 8, 65.
- F. E. Hogan, J. A. Fowler, C. D. Barnes, A. K. Ludwig, D. J. Cristiano, K., D. Morales, **R. Quiñones**, D. Twidwell, J. M. Dauer. "New multimedia resources for ecological resilience education in modern university classrooms." Eco-Sphere: Eco-Education Track. October 2022. <a href="http://doi.org/10.1002/ecs2.4245">http://doi.org/10.1002/ecs2.4245</a>
- Quiñones R, Munoz-Arriola F, Choudhury SD, Samal A (2021) Multi-feature data repository development and analytics for image cosegmentation in high-throughput plant phenotyping. PLoS ONE 16(9): e0257001. https://doi.org/10.1371/journal.pone.0257001
- S. Gampa, **R. Quiñones**. "Data Driven Techniques for Hyperspectral Image Analysis," CRC Press, Taylor and Francis, 2020. ISBN: 9781315177304
- Firestone, J.W., **Quiñones**, **R.**, & Duncan, B.A. (2019). Learning from Users: An Elicitation Study and Taxonomy for Communicating small Unmanned Aerial System States Through Gestures. In *HRI 2019* 14<sup>th</sup> ACM/IEEE *International Conference on Human-Robot Interaction* (pp. 163-171). [8673010] (ACM/IEEE International Conference on Human-Robot Interaction; Vol. 2019-March). IEEE Computer society. <a href="https://doi.org/10.1109/HR.2019.8673010">https://doi.org/10.1109/HR.2019.8673010</a>

#### In Submission

- Vitor Sanches, Rubi Quiñones. "A Literature Review of Resiliency Metrics and Models." 2023.
- **R. Quiñones**, F. Munoz-Arriola, S. Choudhury, A. Samal. "Cosegmentation-Based Phenotype Computations." May 2022.

#### In Preparation

- Prasiddhi Upadhyay, **R. Quiñones.**, "Artificial Intelligence in Resilience Assessments and Social-Ecological Systems. 2024
- R. Quiñones, S. Choudhury, A. Samal. "HyperPheno: A data scientific approach to plant phenotyping analysis using hyperspectral imagery." May 2023.
- Alison K. Ludwig, **R. Quiñones**, and Daniel Rico. "Imaging System and Taxonomy for Carrion Beetle Identification," Environmental Education and Research. July 2023.
- Benjamin Wingerter, **R. Quiñones**, D. Christiano, Mark Vrtiska. "Automatic Telemetry Application." The Journal of Environmental Education March 2022.
- R. Quiñones, K. F. E. Hogan, A. Ludwig, L.K. Soh. "A 2D Multi-Agent Simulation Model for Rubi Quiñones, Assistant Professor Curriculum Vitae Page 3 out of 10

#### Software's

- DA<sup>3</sup>-BES Bee Simulation Model: <a href="https://github.com/benwingerter/bee-simulation/releases">https://github.com/benwingerter/bee-simulation/releases</a>
  Fall 2023
- OSC-CO<sup>2</sup> Software: <a href="https://github.com/rubiquinones/OSC-CO2">https://github.com/rubiquinones/OSC-CO2</a>
   Spring 2023
   HypeRpheno Software: Spring 2019
- HypeRpheno Software: https://plantvision.unl.edu/Softwares/HypeRpheno.zip

#### **Datasets**

- Quiñones, R., Samal, A., Das Choudhury, S., & Munoz-Arriola, F. (2022).

  Cosegmentation for Plant Phenotyping+ (CosegPP+) Data Repository

  Collected Via a High-Throughput Imaging System [Data set]. Zenodo.

  https://doi.org/10.5281/zenodo.6863013
- Quiñones, R., Munoz Arriola, F., Das Choudhury, S., & Samal. Ashok.
   (2021). Cosegmentation for Plant Phenotyping (CosegPP) Data Repository
  Collected Via a High-Throughput Imaging System [Data set]. In Multifeature data repository development and analytics for image cosegmentation
  in high-throughput plant phenotyping. Zenodo.
  <a href="https://doi.org/10.5281/zenodo.5117176">https://doi.org/10.5281/zenodo.5117176</a>

#### Grants/Awards - \$25,000

#### Accepted

- **Rubi Quiñones.** "OSC-CO<sup>2</sup> Research Publication." Publications Cost Funding Award." SIUE Publications Cost Funding Award \$2,000
- Rubi Quiñones. "Artificial Intelligence Working Group Workshop for Identifying Artificial Intelligence Techniques in Resilience." Rasmussen Grant - \$5,000
- **Rubi Quiñones**. "A Multi-Agent Simulation to Understand the Environmental Influence on Plant Growth." SIUE Seed Grants for Transitional and Exploratory Projects (STEP) Grant \$16,000
- SIUE's Faculty Incentive Program \$2,000 Spring 2023

#### Rejected

- Laura, Kair, Ellen, Zuckerman, Rubi Quiñones. "Customized Infant Feeding
   Accessories for Breastfeeding Success." National Institute of Health (NIH),
   Small Business Technology Transfer (STRR) Grant.
- Rubi Quiñones, Carolyn Butts-Wilmsmeyer, Courtney Breckenridge. Spring 2023 "Quantifying the Knowledge Discrepancy Between Computer and Plant Scientists in Plant Phenotyping." Agriculture Genome to Phenome Initiative Working Group Seed Grant.
- Khaled Ahmed, Amer AbuGhazaleh, Rubi Quiñones. "Deep Learning
   Algorithm for Detecting Methane for Sustainable Livestock in Illinois."
   Illinois Innovation Network (IIN) Seed Grant
- **Rubi Quiñones,** John Matta. "Knowledge Discovery using Image-Based Plant Datasets for Linking the Phenotype Response to Climate Change."

Fall 2023

United States Department of Agriculture (USDA) Agriculture and Food Research Initiative's (AFRI) Data Science for Food and Agricultural Systems (DSFAS)

#### Submitted

Mark Ward, et al., Rubi Quiñones (Senior Personnel). "Bridges into a Statistical Major and Big Data Research Experiences Via Learning Communities." National Science Foundation Regional Innovation Engines (NSF Engines)

Fall 2022

#### In Preparation

- National Science Foundation (NSF) Computer and Information Science and Engineering Research Initiation Initiative (CRII) Grant
- NSF Faculty Early Career Development Program (CAREER) Award 2023
- United States Department of Agriculture Food and Agricultural Sciences National Needs Graduate and Postgraduate Fellowship (NNF) Grant Program.

2022

2023

#### **Conference Presentations**

- Computing Research Association- Widening Participation (CRA-WP) Session Spring 2023 Speaker. 1-1 Mentoring: Academic/Career Advising. San Francisco, California. April 20-22, 2023.
- Computing Research Association- Widening Participation (CRA-WP) Session Spring 2023 Speaker. Perspectives from Grad Cohort Alums. San Francisco, California. April 20-22, 2023.
- North American Plant Phenotyping Network Keynote Speaker. Advancing Spring 2023 Computer Vision Using Collaborative Analytics of Deep Learning Networks for High Dimensional Data, Saint Louis, MI. February 15, 2023

**Invited Talks** 

- Spring 2023 • Panelist Speaker, SIUE's SWE Introduce a Girl to Engineering. February 25, 2023
- Spring 2023 • Colloquium Speaker, University of Delaware's Geography Series. Advancing Computer Vision Using Collaborative Analytics of Deep Learning Networks for High Dimensional Data March 3, 2023.
- Panelist Speaker, UNL's National Research Traineeship (NRT). Ask Previous Fall 2022 NRT Alums. November 9, 2022.
- Fall 2022 • Colloquium Speaker, Saint Louis University – Computer Science Colloquium. Advancing Computer Vision Using Collaborative Analytics of Deep Learning Networks for High Dimensional Data, Saint Louis, MI. November 2, 2022.

## Workshops

- Artificial Intelligence Working Group Workshop, Southern Illinois Fall 2023 University Edwardsville, December 1 - 4, 2023
- Open Science Grid User School for High-Performance Computing, Summer 2023 University of Wisconsin-Madison. August 7 - 10, 2023.
- Resilience Alliance Science Meeting, Oracle, Arizona, May 9 12, 2023. Spring 2023 Spring 2023 Resiliency Metrics and Modeling Workshop, Stockholm University.

Rubi Quiñones, Assistant Professor – Curriculum Vitae

Page 5 out of 10

#### **Honors**

First "e" Award for First-Time Principal Investigators on External Grants
 Top 5% of Principal Investigators who submitted External Grants
 Fall 2022

#### 3. SERVICE

#### **Department**

•	Member, Artificial Intelligence Certificate Committee.	Spring 2024-Current
•	Member, Operating Papers Committee.	Spring 2024-Current
•	Member, Cybersecurity Faculty Search Committee.	Spring 2023-Current
•	Social Director, Computer Science Social Committee (2 events per semester)	Fall 2022-Current
•		Fall 2022-Current
•	Co-Organizer, Engineering Day at the College of Engineering	Fall 2023
•	Member, Computer Science Sabbatical Committee for Dr. Igor Crk.	Fall 2023
•	Volunteer Speaker, CS 500 Faculty Research Survey.	Fall 2023
•	Member, Computer Science Sabbatical Committee for Dr. Thoshita	Fall 2022
	Gamage.	
•	Member, Computer Science Chair Search Committee.	Fall 2022
•	Volunteer Speaker, CS 500 Faculty Research Survey	Fall 2022

## **School of Engineering**

•	Chair, Computer Committee	Fall 2023-Current
•	Co-Advisor, Association of Computing Machinery - Women	Fall 2023-Current
•	Co-Advisor, Society of Hispanic Professional Engineers	Spring 2023-Current

## Southern Illinois University Edwardsville

Member, URCA Board     Face of the second seco	all 2023-Spring 2024
• Representative, Graduate Student Awards Committee Fa	all 2023-Spring 2024
• <i>Member</i> , Programs Review Team Fa	all 2023-Spring 2024
• <i>Member</i> , Programs Review Committee Fa	all 2023-Spring 2024
• Member and Ambassador, Center for Predictive Analytics Su	ummer 2023-Current
• Vice President, Hispanic/Latinx Faculty Staff Association Sprin	ng 2023-Spring 2024
Co-Organizer, Hispanic/Latinx Student Graduation Celebration	Spring 2023

## **External - National Science Foundation (NSF)**

•	Reviewer, NSF Grant.	Spring 2023
•	Reviewer, NSF Grant.	Spring 2022
•	Reviewer, NSF Fellowship.	Fall 2022

#### External – Journal Reviews

• Springer, Signal, Image and Video Processing Journal – 1 manuscript Fall 2023

Rubi Quiñones, Assistant Professor – Curriculum Vitae Page 6 out of 10

•	Springer, Plant Molecular Biology Journal – 1 manuscript	Summer 2023
•	Wiley, The Plant Phenome Journal – 2 manuscripts.	Spring 2023
	AME, Quantitative Imaging in Medicine and Surgery – 1 manuscript.	Fall 2022
•	Springer, The Plant Methods Journal – 1 manuscript.	Fall 2022

## External – Leadership

•	Co-Organizer, 2024 NAPPN Conference Program	Fall 2023-Spring 2024
	Committee.	
•	Leader, High School Computational Thinking	Fall 2023-Current
•	Co-Organizer, Women Faculty in Engineering and	Fall 2022-Spring 2023
	Computing Alliance	
•	Co-Organizer, 2023 NAPPN Conference Program	Fall 2022-Spring 2023
	Committee.	
•	Leader, NAPPN's Affinity Group: Young Professionals.	Fall 2022-Spring 2023
•	Board Member, Nebraska's Lincoln Community Baby	Spring 2020-Spring 2023
	Closet.	

# Teaching Development • IMPACT Academy Worksho

•	IMPACT Academy Workshop	Spring 2023
•	New Faculty Onboarding (6 workshops)	Fall 2022-Spring 2023
•	Midweek Mentoring (1 workshop)	Fall 2022

Membership	
• The North American Plant Phenotyping Network (NAPPN).	Fall 2022-Current
<ul> <li>Resilience Alliance Young Scholars (RAYS).</li> </ul>	Fall 2018-Current
<ul> <li>Women Engineering &amp; Computer Science Faculty Alliance.</li> </ul>	Fall 2022-Current
<ul> <li>Hispanic/Latinx Faculty Staff Association at SIUE.</li> </ul>	Fall 2022-Current

## **GRADUATE ACCOMPLISHMENTS**

FELLOWSHIPS & SCHOLARSHIPS - \$118,310

Rubi Quiñones, Assistant Professor – Curriculum Vitae

FELLOWSHIPS & SCHOLARSHIPS – \$118,310	
Graduate Nonresident Fellowship - \$33,500.	2019-2021
• Graduate Fellowship - \$5,000.	2019-2021
• Regents Tuition Fellowship - \$12,000.	2019-2021
• Grace Hopper Scholarship - \$3,000.	2019
<ul> <li>UNL Othmer Graduate Fellowship - \$24,000.</li> </ul>	2017-2019
<ul> <li>Grad Cohort for Women Scholarship - \$500.</li> </ul>	2019
<ul> <li>Grad Cohort for Underrepresented Minorities Scholarship - \$1,500.</li> </ul>	2019
<ul> <li>MUMS Program Opening Scholarship - \$500.</li> </ul>	2018
<ul> <li>Grad Cohort for Women Scholarship - \$500.</li> </ul>	2019
<ul> <li>UNL Grace Hopper Scholarship - \$1,000.</li> </ul>	2017
<ul> <li>Hispanic Scholarship Fund – Intel Scholarship - \$5,000.</li> </ul>	2015
<ul> <li>UTRGV Presidential Scholarship - \$25,000.</li> </ul>	2014-2016
<ul> <li>GM/EEOC Endowed Scholarship - \$5,000.</li> </ul>	2014-2015
• STARS Scholarship - \$1,000.	2015-2016
AWARDS & RECOGNITION - \$3,810	
2022 North American Plant Phenotyping Network (NAPPN) Graduate	2022
Student Award in Research and Service - \$\$	
<ul> <li>NAPPN Travel Award - \$700</li> </ul>	2022
<ul> <li>UNL Registration Award for NAPPN - \$110</li> </ul>	2022
• Grace Hopper Celebration Research Scholar Mentor Award - \$3,000.	2019
INVITED TALKS	
Natural Legacy Workshop. Using Drones to Reach New Ground with	2017
Prescribed Fire, Nebraska City, NE. October 26, 2017.	
• Mid-American Transport Center Scholars Program. Voices from the Field.	2017
UTCRS REUs and MATC Interns, Lincoln, NE. September 1, 2017.	2016
• The Tab. <i>It's time we realized Computer Science isn't just for boys</i> , Virtual March 3, 2016.	2016
• Code RGV's Tech Tuesday. <i>IgniteCS. Powered by: Google</i> , McAllen, TX	2016
June 30, 2016.	<u></u>
CONFERENCE PRESENTATIONS	
• R. Quiñones. Accurate Cosegmentation in High-Throughput and Hig	h 2022
Dimensional Plant Image Sequences. North American Plant Phenotypin	g
Network Annual Conference, Athens, Georgia. February 22, 2022.	
• Mig Shyaka, R. Quiñones, Francisco Munoz-Arriola. Hydroclimate dan	
improvement for extreme-event diagnostics in Rwanda using Random Fores	
21st. Conference on Artificial Intelligence for Environmental Science in AM	S
102 <sup>nd</sup> Annual Meeting, Houston, TX. January 24, 2022.	2022
• Rubi Quiñones, F. Munoz-Arriola, S. Das Choudhury, A. Samal. Advancin	
Detection of Dynamic Environmental Effects on Plants Using Computer	
Vision Analytics in High-Throughput Phenotyping Facilities. 21st Conference	e

Page 8 out of 10

- on Artificial Intelligence for Environmental Science in AMS 102<sup>nd</sup> Annual Meeting, Houston, TX. January 24, 2022.
- P. Sarzaeim, H. Aslam, **R. Quiñones**, F. Munoz-Arriola. *Development of climatic spatiotemporal and analytical visualization for maize response to climate*. 21st Conference on Artificial Intelligence for Environmental Science in AMS 102nd Annual Meeting, Houston, TX. January 24, 2022.
- Rubi Quiñones, F. Munoz-Arriola, S. Das Choudhury, A. Samal. Using
   Image Cosegmentation Methods to Improve Foreground Segmentation
   Accuracy in Plant Phenotyping. 2021 Midwest Women in Science
   Conference, Virtual. September 18, 2021.
- J. Carter, P. Sarzaeim, D. Jarquin, **R. Quiñones**, E. Tanghanwaye. "The Genetic by Environment (GEEN) Phenotypic Predictive System Software Development". NAPPN Annual Conference, 2021.
- **Rubi Quiñones.** *The Importance of Graduate School & Research.* Regional Leadership Development Conference, McAllen, TX. March 12, 2018.

#### LEADERSHIP EXPERIENCE

Council for Resilience Education <i>Treasurer</i> at UNL.	2021-2022
• Resilience Alliance Young Scholar.	2020-2022
• Computing Research Association – Women (CRA-W) <i>Graduate Mentor</i> .	2019
Hispanic Scholarship Fund Scholar.	2019
• UNL Preparing Future Faculty <i>Fellow</i> .	2019
Bangladesh Student Association <i>President</i> at UNL.	2019
• Bangladesh Student Association <i>Vice President</i> at UNL.	2019
• Association for Computing Machinery – Women <i>President</i> at UTRGV.	2016
Hack&&Make Outreach Coordinator at UTRGV.	2015-2016

#### **OUTREACH**

- Volunteer, Council for Resilience Education
   Designed online free-access course in resiliency and provided free teaching materials for professors.
   Volunteer, University Transportation Center for Railway Safety
   Providing hands-on activities in mechanical engineering and computer science in an 8-week program.
   Coordinator, Google Ignite CS
- *Coordinator*, Google Ignite CS Created a 12-week program that taught women, and minorities in a low-income school (7-12 grade) computer science concepts.
- Coordinator, Weekly Hackathons at UTRGV
  Provided rapid hackathons at UTRGV to give undergraduates and opportunity to develop projects for their curriculum vitae

2014

## MENTORING AND ADVISING

Ms. Nora Lucas, undergraduate researcher	2021-2022
Trist Trota Educas, under Bradade Tescaroner	2021-2022
School of Natural Resources, UNL.	2021-2022
<ul> <li>Mr. Victor Moreno, undergraduate researcher School of Natural Resources, UNL.</li> </ul>	2021-2022
<ul> <li>Mr. Mig Shyaka, undergraduate researcher</li> </ul>	2021-2022
School of Natural Resources, UNL.	2021-2022
<ul> <li>Mr. Benjamin Wingerter, undergraduate researcher</li> </ul>	2021-2022
School of Computing, UNL.	2021-2022
<ul> <li>Mr. Linhan Li, undergraduate researcher</li> </ul>	2021
School of Computing, UNL.	2021
<ul> <li>Mr. Rongsong Yang, undergraduate researcher, UCARE fellow</li> </ul>	2019
School of Computing, UNL	_017
SERVICE ACCOMPLISHMENTS	
• Science Literacy 101, <i>Poster Judge</i> , at UNL.	2022
• Undergraduate Creative Activities and Research Experience (UCARE)	2022
Research Application Reviewer at UNL.	
• Science Literacy 101, <i>Poster Judge</i> at UNL.	2021
<ul> <li>UCARE Research Application Reviewer at UNL.</li> </ul>	2021
• Council for Resilience Education <i>Member</i> .	2019-2021
• Graduate Travel Awards Program <i>Reviewer</i> at UNL.	2019
<ul> <li>Nebraska Summer Research Symposium Poster Judge at UNL.</li> </ul>	2019
• UCARE Research Application <i>Reviewer</i> at UNL.	2019
• Undergraduate Research Fair Poster Competition <i>Poster Judge</i> at UNL.	2019
ΓEACHING	
Instructor, Undergraduate Independent Study Course, UNL	2021
• Course: Introduction to Python Tools for Research Analytics	
Graduate Teaching Instructor/Assistant, UNL	2018-2019
Graduate reaching instructor/Assistant, GNL	2010 2017
Course: NRES 879 – Hydroclimatology	
· · · · · · · · · · · · · · · · · · ·	2020
<ul> <li>Course: NRES 879 – Hydroclimatology</li> </ul>	2020 2018 2018