**Roxaneh Khorsand - Curriculum Vitae**

Department of Organismal Biology and Ecology

Colorado College

Colorado Springs, CO. 80903

Tel: 719-389-6190

Email: [rkhorsand@coloradocollege.edu](mailto:rkhorsand@coloradocollege.edu)

Education

Postdoctoral, 2015, Florida International University, Miami, FL. Phenological responses of tundra plants to an extension of the growing season and soil warming.

Ph.D. Biology, 2013, Florida International University, Miami, FL. The influence of habitat on the reproductive ecology of the Amazonian palm, *Mauritia flexuosa*, in Roraima, Brazil.

B.S. Biology, 2003, University of Colorado, Boulder, CO.

B.A. Spanish Literature, 2003, University of Colorado, Boulder, CO.

Publications (Peer-Reviewed)

**Khorsand, R**. and Awolaja, F. 2020. Pollination and breeding system of *Thermopsis divaricarpa* (Fabaceae: Papilionoideae) in the southern Rockies. *Western North American Naturalist* 80: 509–520.

Koptur, S. and **Khorsand, R**. 2018. Pollination ecology of three sympatric palms of southern Florida pine rocklands. *Natural Areas Journal* 38: 15-25.

**Khorsand Rosa, R**., Oberbauer, S.F., Starr, G. Parker LaPuma, I., Pop, E., Ahlquist, L., and Baldwin, T. 2015. Plant phenological responses to a long-term experimental extension of growing season and soil warming in tussock tundra of Alaska. *Global Change Biology* 21: 4520–4532.

**Khorsand Rosa, R**., Imbrozio Barbosa, R., and Koptur, S. 2014. Which factors explain reproductive output of *Mauritia flexuosa* (Arecaceae) in forest and savanna habitats of northern Amazonia? *International Journal of Plant Sciences* 175(3):307-318.

**Khorsand Rosa, R**. 2014. A review of the pollination biology of *Mauritia flexuosa*. *Palms* 58(2): 77-82.

**Khorsand Rosa, R**. and Koptur, S. 2013. New findings on the pollination biology of *Mauritia flexuosa* (Arecaceae) in Roraima, Brazil: linking dioecy, wind, and habitat. *American Journal of Botany* 100(3): 613-621.

**Khorsand Rosa, R**., Imbrozio Barbosa, R., and Koptur, S. 2013. How do habitat and climate variation affect phenology of the Amazonian palm, *Mauritia flexuosa*? *Journal of Tropical Ecology* 29(3): 255-259.

**Khorsand Rosa, R**. 2011. Bees collect resin from *Mauritia flexuosa* in Roraima, Brazil. *Palms* 55(4): 200-203.

**Khorsand Rosa, R**. and Koptur, S. 2009. Preliminary observations and analyses of pollination   
in *Coccothrinax argentata*: Do insects play a role? *Palms* 3(2): 75-83.

Teaching Experience, Courses Taught

2018 – present Visiting Assistant Professor, Colorado College, Department of Organismal Biology and Ecology: Biology of Plants (BE 105), Ecology (BE 208), Advanced Ecology (BE 308), Research in Biology (BE 309/409)

2015 – 2018 Visiting Assistant Professor, University of Northern Colorado,

School of Biological Sciences: Principles of Biology (BIO 110),   
Exploring Biology (BIO 100), Ecology (BIO 360), Scientific Writing   
(SCI 291), Undergraduate Biology Seminar (BIO 491), Graduate Topics in Ecology and Evolution, Climate Change and Phenology (BIO 565), Conservation of Natural Resources (ENST 265), Introduction to Environmental Studies (ENST 100)

2015, Spring Adjunct Instructor, Florida International University,   
Department of Biological Sciences: Ecology (PCB 3043), Senior Seminar (BSC 4931)

2015, Spring Guest Lecturer, Florida International University,   
Department of Biological Sciences; Tropical Ecology

2011, Fall Guest Lecturer, Federal University of Roraima, Brazil;   
Plant Ecology

2009, Fall Guest Lecturer, Florida International University, Department of Biological Sciences; Ecology

2007 – 2012 Graduate Teaching Assistant, Florida International University, Department of Biological Sciences; General Biology I Laboratory (BSC 1010L), General Biology II Laboratory (BSC 1011L), Ecology (PCB 3043), Plant Ecology (BOT 4601), Evolution (PCB 4674)

Selected Grants and Awards

2020 Colorado College SEGway Research Award, $5,000

2019 National Science Foundation Research Opportunity Award, $28,000  
  
Colorado College Natural Sciences Executive Council Research Grant, $5,000

2017 Continental Divide Research Learning Center – Rocky Mountain National Park-Funded Research, $60,000 (applied, not funded).

University of Northern Colorado, School of Biological Sciences Faculty Research Award, $2,000

2016 Continental Divide Research Learning Center – Rocky Mountain National Park-Funded Research (applied, not funded).

2013 Florida International University, Worlds Ahead Graduate.

Florida International University Biology Symposium, Best Graduate Student Talk, Honorable Mention.

2012 Florida International University Dissertation Year Fellowship,   
$25,000  
  
Botanical Society of America, Best Graduate Student Paper, Ecological Section, Columbus, OH.

Florida International University Biology Symposium, Best Graduate Student Talk.

2011 National Science Foundation Supplement to Doctoral Dissertation Enhancement Project Award, $3,000

2010 National Science Foundation Doctoral Dissertation Enhancement Project Award, $15,000

2010 Fulbright Scholar Fellowship, $15,000

2009 Montgomery Botanical Center Research Fellowship, $2,000

2008 International Palm Society Fellowship, $4,500

National Science Foundation Graduate Research Fellowship, Honorable Mention.

2007 National Science Foundation Cyber Bridges Award, $5,000

Professional and Research Experience

2018 – present Effects of climate change on arctic plant-pollinator interactions,   
Toolik Field Station, AK.

2016 – 2017 Pollination ecology of montane plant species, Mountain Research Station, CO.

2008 – 2010 Visiting Researcher, National Institute for Amazonian Research (INPA), Boa Vista, Roraima, Brazil.

2005 Field Assistant, Maracá Ecological Station, Roraima, Brazil.  
  
 Herbarium Technician in collaboration with New York   
 Botanical Garden, Executive Commission of Cacao   
 Plantations (CEPLAC), Ilhéus, Bahia, Brazil.

2004 English Editor, Iran News, Tehran, Iran.

2001– 2003 Undergraduate Research Assistant, University of Colorado at Boulder,  
Mentor: Dr. Pamela Diggle

Evidence of Student Mentorship Including Funding and Presentations

2020 Alex Jennings and Zach Klingner, poster presentation: *Effects of a Warming Climate on Plant-pollinator Interactions in the Alaskan Tundra*. Midstates Consortium for Math and Science Undergraduate Research Symposium, Biological Sciences and Psychology.

Alex Jennings and Zach Klingner, Colorado College Student Faculty Collaborative Grant, *Effects of climate change on plant-pollinator interactions in the Alaskan Arctic*, $4,000

2019 John Feigelson, poster presentation: *The Effect of Experimental Warming on Plant-Pollinator Relationships in the Low Arctic*. Midstates Consortium for Math and Science Undergraduate Research Symposium, Biological Sciences and Psychology.

Hayes Henderson, poster presentation: *What is the Potential of a Phenological Mismatch Between Arctic Tundra Plants and their Pollinators?* Colorado College SCoRE Symposium.   
  
Hayes Henderson, Colorado College Student Faculty Collaborative Grant,   
*Effects of climate change on plant-pollinator interactions in the Alaskan Arctic*, $4,000

Caroline Brose, Colorado College undergraduate independent research,   
*Decrease in soil moisture positively influences bird vetch (*Vicia cracca*) growth and nodulation in a boreal forest*

2018 Olufisayo Awolaja, University of Northern Colorado Undergraduate Research Fellowship, *Pollination biology of* Thermopsis divaricarpa *in the southern Rocky Mountains*, $1,300

2017 Olufisayo Awolaja, University of Northern Colorado Undergraduate Research Symposium, finalist, nominated to present at National Conference on Undergraduate Research (NCUR)

Olufisayo Awolaja, University of Northern Colorado Research Day, 1st place poster presentation

Olufisayo Awolaja, University of Northern Colorado Undergraduate Research Fellowship, $1,400

Invited Academic Seminars and Research Talks

2019 Research talk, University of Colorado, Colorado Springs, Co. *From the Amazon to the Arctic: why plant reproductive biology matters in a changing climate*.

Research talk, Toolik Field Station, AK. *From the Amazon to the Arctic: why plant reproductive biology matters*.

On-campus interview, Department of Biology, Florida International University, FL., removed myself from search upon accepting other offer

On-campus interview, Department of Biology, Unity College, ME., removed myself from search upon accepting other offer

On-campus interview, Department of Biology, University of Alabama, AL., offered position, declined

2017 On-campus interview, Department of Biology, William Jewell College, MO., declined.

On-campus interview, Environmental and Sustainability Studies, University of Northern Colorado, CO.

2016 On-campus interview, Department of Biology, North Central College, IL., offered position, declined.

2015 On-campus interview, Department of Biology, University of Puget Sound, WA.,

Research talk, São Paulo State University, Rio Claro (UNESP, Rio Claro), São Paulo, Brazil. *Da Amazônia até o Ártico: efeitos ambientais na biologia reprodutiva das plantas*.

2014 Research talk, Botanical Society of America Conference, Boise, ID. *Predicting phenological responses of arctic tundra species to climate change*.

2013 Research talk, Florida International University Biology Symposium, Miami, FL. *Reconsidering wind-pollination in the tropics: a case study of* Mauritia flexuosa *(Arecaceae).*

2012 Research talk, Botanical Society of America Conference, Columbus, OH. *Floral biology and pollination of the agroforestry palm,* Mauritia flexuosa*: why field observations are not enough*.

Research talk, Plant Biologists of South Florida Annual Meeting, Miami, FL. *Flowering and fruiting phenology of* Mauritia flexuosa*, an Amazonian palm.*

2010 Research talk, Federal University of Roraima (UFRR), Boa Vista, Roraima, Brazil.   
*A ecologia reprodutiva do buriti em Roraima*.

2008 Poster presentation, Ecological Society of America Plant-Pollinator Interactions Conference, Milwaukee, WI. *The pollination biology of three sympatric palms of southern Florida pine rocklands*.

Academic Service and Community Engagement

2020 Reviewed incoming undergraduate applications for Margaret Barnes Scholarship, Colorado College

2017 Co-authored monthly science column in local newspaper, *The Greeley Tribune*

2017 Greeley 500 Women Scientists Pod: led scientific collaboration with local school,

Fred Tjardes School of Innovation

2017 Schulze Series, UNC (<http://www.unco.edu/mind/schulze/>); helped organize this   
bi-annual event, advertised within and outside of academic community

2017 *Discover UNC Fair*: gave oral presentations to audiences of prospective   
 students and parents

2017 Women Scientists Panel, Association of Women in Geosciences, University of Northern Colorado; panelist

2015 – Undergraduate Committee, School of Biological Sciences, University   
2018 of Northern Colorado; 5-year Comprehensive Review of School of   
 Biological Sciences, annual assessments of the undergraduate program,   
 selection process for annual undergraduate awards

2016 – Research Advisor for McNair Fellow Undergraduate Biology Majors,   
2018 University of Northern Colorado

2016 – Academic Advisor for Environmental Studies Majors, University of  
2017 Northern Colorado

2016 – Advisory Board for National Science Foundation project

2017 "Collaborative research: sexism present in the field: gendered experiences in science field settings and the impact on academic and career pursuits”

2016 – Scientific Writing (SCI 291) Committee, University of Northern Colorado;   
2018 developed a common syllabus for SCI 291 across all scientific disciplines

2016 – Pollination ecology outreach: Swanson Elementary, Denver, CO.

2017

2012 – Ecology outreach: Henry E.S. Reeves Elementary, Miami, FL.

2013

2011 Earth Week, Integrated Museum of Roraima (MIRR), Boa Vista, Roraima, Brazil.

2010 – Environmental outreach with school children and community members in

2011 Roraima, Brazil.

2008 – Trained four local field and assistants in Roraima, Brazil.  
2011 Mentored undergraduate students at *Faculdade Atual*, Roraima, Brazil.

Reviewer (Journals and Proposals)

2021 Global Change Biology

2017 Wetlands

2016 American Journal of Botany

Global Ecology and Conservation

2015 International Journal of Fruit Science

2014 AoB PLANTS   
 Biotemas

International Palm Society

2013 International Palm Society

National Institute for Amazonian Research

2012 International Palm Society

2011 Journal of the Torrey Botanical Society

Professional Affiliations

American Association of University Professors

Colorado Native Plant Society

Botanical Society of America

Union of Concerned Scientists  
Association for Tropical Biology and Conservation

International Palm Society

Languages  
English (fluent)

French (fluent)

Portuguese (fluent)  
Spanish (fluent)  
Farsi (proficient)

Computer and technological skills

Microsoft Office

SPSS Statistics

R

Learning Management Systems: Blackboard, Canvas

Classroom Response Systems: iClicker, Turning Point

Online teaching tools: McGraw-Hill Education Connect, MacMillan Education Launchpad, Wiley and Sons Wiley-PLUS

References

Shane Heschel, Associate Professor and Chair, Department of Organismal Biology and Ecology, Colorado College, Colorado Springs, CO.  
[sheschel@coloradocollege.edu](mailto:sheschel@coloradocollege.edu); 719-389-6406

Susan Keenan, Professor, School of Biological Sciences,

University of Northern Colorado, Greeley, CO.,   
[susan.keenan@unco.edu](mailto:susan.keenan@unco.edu); 970-351-2510

Steven Oberbauer, Professor and Chair, Department of Biological Sciences,   
Florida International University, Miami, FL.,   
[oberbaue@fiu.edu](mailto:oberbaue@fiu.edu); 305-348-2580

William Bowman, Professor and Associate Chair for Graduate Studies, Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, CO.

Director, Mountain Research Station, INSTAAR

[william.bowman@colorado.edu](mailto:william.bowman@colorado.edu); 303-492-2557