

Curriculum Vitae

Kimberly Norris Russell

Mailing Address:

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Natural Resources
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Education

2000 **Ph.D.** in Ecology and Evolutionary Biology, University of Tennessee, Knoxville, TN

1992 **Bachelor of Arts**, *Magna cum laude*, Honors in Biology, Colgate University, Hamilton, NY

Positions Held

2021 – present **Undergraduate Program Director**, Department of Ecology, Evolution and Natural Resources, Rutgers University, New Brunswick, NJ

2021 – present **Associate Teaching Professor**, Department of Ecology, Evolution and Natural Resources, Rutgers University, New Brunswick, NJ

2015 – 2020 **Assistant Teaching Professor**, Department of Ecology, Evolution and Natural Resources, Rutgers University, New Brunswick, NJ

2017 – present **Research Associate**, Division of Invertebrate Zoology, American Museum of Natural History, New York, NY

2011 – 2014 **Research Scientist**, Department of Biological Sciences, New Jersey Institute of Technology, Newark, NJ

2007 & 2013 **Visiting Associate Professor**, Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ

2013 **Adjunct Faculty**, Department of Biology, The College of New Jersey, Ewing, NJ

2007 & 2013 **Part-time Lecturer**, Department of Ecology and Evolutionary Biology, Rutgers University, New Brunswick, NJ

2009-2011 **University Lecturer**, Department of Biological Sciences, New Jersey Institute of Technology, Newark, NJ

2007 (Spring) **Adjunct Lecturer**, Department of Ecology, Evolution and Environmental Biology, Columbia University, New York, NY

2006-2012 **Research Scientist**, Division of Invertebrate Zoology, American Museum of Natural History, New York, NY

2006-2008 **Research Associate Professor**, Federated Department of Biological Sciences, Rutgers University, Newark, NJ

2002–2005 **Post-doctoral Research Associate**, Division of Invertebrate Zoology, American Museum of Natural History, New York, NY

2001–2002 **Juliana Wilson Thompson Visiting Assistant Professor of Biology**, The College of Wooster, Wooster, OH

2001 (April–August) **Research Associate**, USGS Patuxent Wildlife Research Center, Laurel, MD

2001 (January to April) **Visiting Researcher**, Center for Environmental Research and Conservation, Columbia University, New York, NY
 1999–2000 **Post-doctoral Research Scientist**, Center for Environmental Research and Conservation, Columbia University, New York, NY
 1996 (July/August) **Visiting Scientist**, University of Paisley, Scotland, UK
 1993–1999 **Graduate Teaching Assistant**, Department of Ecology and Evolutionary Biology, University of Tennessee, Knoxville, TN

Offices

2023 – present **Elected Member**, SEBS George H. Cook Honors Committee
 2021 – present **Member**, SEBS Curriculum and Educational Policy Committee (CEP)
 2021 – present **Member**, SEBS Faculty Advisory Board, Career Exploration and Success.
 2021–2022 **Provost's Teaching Fellow**, Chancellor Provost Office & Center for Teaching Advancement and Assessment Research (CTAAR), Rutgers University.
 200 –2011 **Masters Program Coordinator**, Federated Department of Biology, Rutgers University and NJIT
 1998–1999 **Vice-President**, Southern Appalachian Chapter of the Society for Conservation Biology
 1996–1997 **President**, Graduate Researchers in Ecology, Behavior, and Evolution, University of Tennessee
 1996 **Coordinator**, Graduate Student Outreach Program (educational visits to local schools) sponsored by Graduate Researchers in Ecology, Behavior, and Evolution, University of Tennessee
 1995–1996, 1998 **Member**, Graduate Affairs Committee, University of Tennessee
 1994–1995 **Officer**, Graduate Organization of the Department of Zoology, University of Tennessee

Grants and Awards

2022 **Ittleson Foundation** Environmental Grant (The Horticultural Society of New York, subcontract). The Pollinator Port Project. \$75,000.
 2021 **PSEG** Research Grant. Pollinators in Transmission Lines. \$19,892.
 2017 **Alberts Biodiversity Award (PI)**. Increasing the contributions of transmission line easements to pollinator biodiversity: a cost-benefit analysis of vegetative management techniques. \$11,221.
 2016 **NSF DBI: Advances in Bioinformatics #1564386 (Named Collaborator)**: ODOMATIC: Automatic Species Identification, Functional Morphology, and Feature Extraction to alleviate the taxonomic impediment and broaden citizen science tools. \$625,755
 2010 **Electric Power Research Institute (PI)**. *Use of Transmission Line Easements for the Benefit of Native Bees*. \$203,041
 2006 **NCEAS Distributed Graduate Seminar (Seminar Leader)**: *Biodiversity, conservation and ecosystem services in managed landscapes*.
 2006 **NSF Planetary Biodiversity Inventory (PBI) #0613754 (Named Investigator)**: The Megadiverse, Microdistributed Spider Family Oonopidae, \$2.6 million
 2005 **Travel Grant**, National Science Foundation \$3300
 2001 **NSF Biocomplexity in the Environment (IDEA) #0119578 (Co-PI)**: *A Neural Network Based Automated Identification System for Biological Species*, \$796,818
 2001 **Juliana Wilson Thompson Visiting Assistant Professor of Biology** (endowed position), The College of Wooster, Wooster, OH, \$2000

1999 **Science Alliance Graduate Student Award of Excellence**, Division of Biology of the University of Tennessee, \$3000

1999 **Merit Award**, Department of Ecology and Evolutionary Biology of the University of Tennessee, \$2500

1998 **Science Alliance Upgrade**, Division of Biology of the University of Tennessee, \$3000

1998 **Travel Grant**, Society for Conservation Biology, \$1000

1998 **Travel Grant**, The Graduate School of the University of Tennessee, \$500

1998 **Travel Grant**, The Division of Biology of the University of Tennessee, \$200

1997 **Ralph M. Sargent Memorial Scholarship Fund** of the Highlands Biological Foundation, Inc., \$1000

1996 **American Arachnological Society**: *Turnover in an Arthropod Assemblage as a Potential Indicator of Community Disturbance*. \$500

1996 **Ralph M. Sargent Memorial Scholarship Fund** of the Highlands Biological Foundation, Inc., \$600

1996 **Grant-In-Aid** from the Highlands Biological Station, \$400

1996 **Graduate Researchers in Ecology, Behavior, and Evolution**, University of Tennessee \$200

1996 **Sigma Xi Grant-in-Aid of Research**, \$500

Publications

Russell, K. N., G. Russell and R. Blazey. 2020. Robin's Day: A family tradition becomes citizen science. *The Kingbird*. 70 (1): 2-7.

Liu, S., F.Y. Shih, G. Russell, K. Russell and H. Phan. 2020. Classification of Ecological Data by Deep Learning. *International Journal of Pattern Recognition and Artificial Intelligence*.
<https://doi.org/10.1142/S0218001420520102>

Shih, F., S. Liu, G. Russell, K. Russell, H. Phan. (in prep). Rapid development of a deep learning auto-ID system for bee species using wing images. *Methods in Ecology and Evolution*.

Russell, K.N., Russell, G.J., Kaplan, K.L. et al. 2018. Increasing the conservation value of powerline corridors for wild bees through vegetation management: An experimental approach. *Biodiversity and Conservation*. 27(10): 2541 - 2561.
<https://doi.org/10.1007/s10531-018-1552-8>

Evangelista, D.A., G. Russell, K.N. Russell, G. Bourne & J.L. Ware. 2017. Evidence that dispersal barriers influence blaberoid cockroach assemblages in a neotropical savanna-forest matrix. *Insect Conservation and Diversity*. Doi: 10.1111/icad.12246

Russell, K.N. and S. Kornbluth. 2013. Use of transmission line easements for the benefit of native bees. Electric Power Research Institute Technical Report 3002001125.

Russell, K.N., M.T. Do, J.C. Huff and N.I. Platnick. 2007. Introducing SPIDA-web: wavelets, neural networks and Internet accessibility in an image-based automated identification system. In N. MacLeod (ed), *Automated Object Identification in Systematics: Theory, Approaches, and Applications*. Springer Verlag.

Russell, K.N., H. Ikerd, and S. Droege. 2005. The potential conservation value of unmowed powerline strips for native bees. *Biological Conservation* 124: 133-148.

Norris, K.C. (Maiden name) 2000. Guidelines for the use of hyperdiverse taxa in biological monitoring: Change through time in Southern Appalachian spider assemblages. Ph.D. Dissertation, University of Tennessee.

Norris, K.C. (Maiden name) 1999. Quantifying change through time in spider assemblages: sampling methods, indices, and sources of error. *Journal of Insect Conservation* 3(4), 311-327.

Do, M.T., J.M. Harp and K.C. Norris. (Maiden name) 1999. A test of a pattern recognition system for identification of spiders. *Bulletin of Entomological Research* 89, 217-224.

Published Abstracts

- Russell, K.N., and S. Kornbluth. 2013. Integrated Vegetation Management in powerline rights-of-way provides quality habitat for native bees. *International Congress of Conservation Biology Meeting, Abstracts* (<http://www.conbio.org/mini-sites/iccb-2013>)
- Russell, K.N., M.T. Do and N.I. Platnick. 2005. Introducing SPIDA-web: An automated identification system for biological species. *Taxonomic Database Working Group Annual Meeting, Abstracts* (http://www.tdwg.org/2005meet/paperabstracts/TDWG2005_Abstract_64.htm).
- Russell, K.N., M.T. Do and N.I. Platnick. 2004. Introducing SPIDA-web: A fully automated, digital image-based identification system for biological species. *Special Symposium-DNA-Taxonomy: Good-Bye Microscope? Entomological Society of America Annual Meeting, Abstracts* (http://esa.confex.com/esa/2004/techprogram/paper_13574.htm).
- Russell, K.N., M.T. Do and N.I. Platnick. 2003. Introducing SPIDA-web: An automated identification system for biological species. *American Arachnological Society Annual Meeting, Abstracts* (http://www.americanarachnology.org/MeetingAbstracts/AAS_03_abstracts.html).
- Russell, K.N., and S. Droege. 2003. The potential conservation value of unmowed powerline strips for native bees. *Society for Conservation Biology Annual Meeting, Abstracts* (http://www.conbio.org/SCB/Activities/Meetings/2003/website/contributed_orals.htm#C35)
- Russell, K.N., M.T. Do and N.I. Platnick. 2004. SPIDA-web for spiders: An automated identification system for the species in the Australasian ground spider family Trochanteriidae. *16th International Congress of Arachnology, Abstracts* ([http://users.ugent.be/~jpmaelfa/Abstracts%20Lezingen%20\(all\).pdf](http://users.ugent.be/~jpmaelfa/Abstracts%20Lezingen%20(all).pdf)).
- Russell, K.N., M.T. Do and N.I. Platnick. 2004. Introducing SPIDA-web: An automated identification system for biological species. *The Center for Biodiversity and Conservation's Ninth Annual Spring Symposium-Expanding the Ark: The Emerging Science and Practice of Invertebrate Conservation, Abstracts* (<http://research.amnh.org/biodiversity/symposia/archives/expandingthearc/posters.html>).
- Russell, K.N., M.T. Do and N.I. Platnick. 2004. Introducing SPIDA-web: An automated identification system for biological species. *Society for Conservation Biology Annual Meeting, Abstracts* (<http://www.conbio.org/SCB/Activities/Meetings/2004/talks.cfm>).

Featured Articles

- Ness, Erik. January to March, 2005. "SPIDA-web, SPIDA-web: Artificial neural networks fill in for taxonomists". *Conservation in Practice (Innovations)* 6(1): pg. 35-36.
- Vergano, Dan. August 18, 2005. "Conservationists are all abuzz about honeybee havens." *USA Today*, pg. 7D.
- Graham-Rowe, Duncan. August 26, 2005. "Power lines may provide a haven for bees." *NewScientist.com*.
- Gourdarzi, Sara. September 15, 2005. "Left unmowed, power-line land might suit bees." *Christian Science Monitor*, pg. 14.
- Holden, Constance (editor of *Random Samples*). September 23, 2005 "Where the Bees Are." *Science* 309(5743), pg. 1986

Lundmark, Cathy. October 2005. "What's the Buzz? Potential habitat for bees." *Bioscience* 55(10).

Invited Presentations & Workshops

- August 2019 & 2022, 2023. **Duke Farms**: Master Ecologist Program: Pollinator Ecology Workshop leader.
- October 2022. **Utility Arborist Association**: 13th Environmental Concerns in Rights-Of-Way Management Symposium, Academic panel member & Invited speaker. "Mid-Atlantic: Increasing Habitat for Native Bees."
- August 2020 & 2021. **Duke Farms**: Pollinator Webinar Series. "Wild bees and pollination: Meeting bee's needs."
- April & September 2021. **Rutgers University**. DEI Outreach event (online): Demystifying graduate school in Ecology and Evolution.
- June 2020. **Rutgers Cooperative Extension of Middlesex County**: Environmental Stewards. "Pollinator Ecology (Mostly Bees)".
- February 2020. **Brookdale Community College** Spring Seminar Series. "Meeting Bee's Needs: Increasing the conservation value of powerline corridors for pollinators through vegetation management."
- January 2020. **Rutgers Gardens** Volunteer Meeting. "Meeting Bee's Needs: Promoting Wild Bee Populations in Managed Landscapes."
- April 2019. Stewardship Roundtable, **Duke Farms**. "Meeting Bee's Needs Increasing the conservation value of powerline corridors for wild bees through vegetation management"
- March 2019. **Entomological Society of American**, Eastern Branch Meeting, Blacksburg, VA. Special Symposium: The Digital Future of Entomology "Rapid development of a Deep Learning Auto-ID system for bee species using wing images"
- October 2018. **EPRI** Fall Energy and Environment Program Advisory & Sector Council Meetings. Denver, CO. "What's the Buzz About? Bees & EMF"
- October 2017. **PSEG** NJ Annual Research Conference. "Making Lemonade: Increasing the Conservation Value of Transmission Line Easements for Wild Bees".
- October 2017. **EPRI** International Environmental Aspects of Transmission & Distribution Workshop. Brussels, Belgium.
- April 2017. **EPRI** Pollinator Workshop (with Xerces & NFWF), Washington DC. "Making Lemonade: Increasing the Conservation Value of Transmission Line Easements for Wild Bees Through Vegetation Management."
- February 2017. Department of Entomology, **Rutgers University**, New Brunswick. "Making Lemonade: Using Managed Land Under Transmission Lines to Increase Wild Bee Populations."
- February 2017. Ecology and Evolution Graduate Program Seminar, **Rutgers University**, New Brunswick. "Making Lemonade: Using Managed Land Under Transmission Lines to Inform Wild Bee Conservation Efforts."
- November 2014. **Upstate Medical School**, Syracuse, NY. "Evolution and the Behavior of the Sexes."
- February 2013. **Electric Power Research Institute** Annual EMF/RF Area Council Meeting, Savannah, GA. "Final Report: Use of transmission line easements for the benefit of native bees."
- September 2010. **Electric Power Research Institute** Annual EMF/RF Area Council Meeting, San Antonio, TX. "Use of transmission line easements for the benefit of native bees."
- November 2007. Departmental Seminar, **Rutgers University**, Newark, NJ. "Bees, Spiders and SPIDA-web: Arthropods and Artificial Intelligence in Conservation Planning."

August 2005. Symposium: Algorithmic Approaches to the Identification Problem in Systematics, **The Natural History Museum**, London. "Introducing SPIDA-web: An automated identification system for biological species."

April 2005. Departmental Seminar, **Colgate University**, Hamilton, NY. "Spiders, bees and SPIDA: Arthropods and Artificial Intelligence in Conservation Planning."

November 2004. Symposium at the annual meeting of the **Entomological Society of America**, Salt Lake City, Utah, U.S.A. "Introducing SPIDA-web: A fully automated, digital image-based identification system for biological species" as part of the *DNA-taxonomy: Good-Bye Microscope?*

October 2004. Departmental Seminar, **Rutgers University**, New Brunswick, NJ. "Bees, Spiders and SPIDA: Arthropods and Artificial Intelligence in Conservation Planning."

October 2001. Departmental Seminar, **College of Wooster**, Wooster, OH. "Saving the other 99%: Arthropods and Artificial Intelligence in Conservation Planning"

June 2000. Departmental Seminar, **Barnard College**, New York, NY. "Importance, obstacles and benefits of incorporating arthropods in conservation planning"

April 1999. Departmental Seminar, **Western Carolina University**, Cullowhee, NC. "Change through time and space in Southern Appalachian spider communities: guidelines for the use of hyperdiverse taxa in biological monitoring"

July 1998. *Issues in Spider Conservation* symposium at the annual meeting of the **Society for Conservation Biology**, Sydney, Australia. "Quantifying extinction and colonization in spider communities: turnover, predictability, and rarefaction"

Professional Activities & Community Outreach

2022 to present. **Organizer**, Annual Bee Bioblitz & Scavenger Hunt, Denny Farrell Riverbank State Park Greenhouse & Education Center, New York, NY.

2022 to present. **Treasurer**, Spike 293 Robotics Team Parent Booster Club, Central High School, HVRSD, Pennington, NJ.

2015 to present. **Faculty Mentor** for the Student Conference on Conservation Science-New York (SCCS-NY).

2017 to 2019 **Science Fair Chairman**, Bear Tavern Elementary PTO

2018 **Paid Consultancy**, for Dr. Sarah Cavanagh's book *Hive Mind: Thinking Alike in a Divided World*, Grand Central Publishing, Assumption College

2017 **Participant** in Ernie Oros Bioblitz, Woodbridge, NJ

2016 **Science Fair Co-Chairman**, Bear Tavern Elementary PTO

2016 **Member**, Science Fair Committee, Bear Tavern Elementary PTO

2015 **Panelist** for Women in Science Workshop at Rutgers-Newark.

2014 **Presenter** on native bees, Congregation B'nai Israel, Rumson, NJ.

2012 **Participant** in Rutgers-Newark Bioblitz.

2009 **Participant** in Saw Mill River Coalition Bioblitz.

2002-2003 **Paid Consultancy** for Raintree *Parasites and Partners* series, Brown Reference Group, London.

2000-2001 **Paid Consultancy** for Marshall Cavendish *Insects and Spiders* reference set, Brown Partworks Limited, London.

1999 **Commissioned identification** of a collection of spiders from the AEDC RTE Invertebrate Survey.

Member of Society for Conservation Biology, Ecological Society of America, American Arachnological Society

Manuscript reviews for the Journal of Arachnology, Biological Conservation, Landscape & Urban Planning, Northeast Naturalist
National Science Foundation proposal reviews

Departmental Committees

2021 - present DEENR Curriculum Committee
2015 - present DEENR Assessment Committee
2017, 2020, 2023 DEENR Merit Award PEC Committee
2018 DEENR Undergraduate Curriculum Review Committee
2016 DEENR Curriculum Affairs Committee

Honors

2008 U.S. Nominee, **Ebbe Nielsen Prize** sponsored by GBIF (Global Biodiversity Information Facility)
1992 **Raymond J. Myers Prize in Biology**, Colgate University
1989–1992 **Colgate Dana Scholar** (awarded for academic excellence and leadership), Colgate University
1988–1992 **Dean's Award for Academic Excellence**, Colgate University
1991 **Phi Beta Kappa**, National Honors Society
1989 **Beta Beta Beta**, Biological Honors Society

Teaching Experience

DEENR Senior Capstone, Rutgers University
Invertebrate Zoology, Rutgers University
Evolution of Sex and Gender in Animals, Rutgers University
Fundamentals of Evolution, Rutgers University
Animal Behavior, College of Wooster, Princeton University, Rutgers University, NJIT
Pollinators and Garden Design (Byrne Seminar), Rutgers University
Spiders and Society: From Attenborough to Arachne (Byrne Seminar), Rutgers University
Evolution and the Behavior of the Sexes, Princeton University
Evolution (undergraduate), NJIT
Evolution (graduate), NJIT
Conservation Biology, NJIT
Insects and Human Society, NJIT
Ecological Field Methods and Analysis, NJIT
Foundations of Biology: Ecology and Evolution, NJIT
Ecology and Field Biology, Lecturer and laboratory instructor, TCNJ
Biodiversity, Conservation, and Ecosystem Services in Managed Landscapes (an NCEAS DGS seminar), Lecturer and working group leader, Columbia University.
Introduction to Populations, Lecturer and laboratory instructor, College of Wooster.
Population and Community Ecology, Lecturer and laboratory instructor, College of Wooster.
Ethology, Lecturer and laboratory instructor, College of Wooster

Advising Experience

George H. Cook Honors Scholars Program

Advisor, Joey Schrager, '24, "Cultivating Native Flora and Managing Invasive Species for Native Bees"

Advisor, Nina Fedoryka '23, "Nest Habitat Supplementation for Native Ground-Nesting Bee Populations in Urban Environments"

Advisor, Mariel Vandegrift '23, "Pollinator Response to Mugwort Control Efforts"

Advisor, Marcellus Murray '22, "Resource Competition between Native bees and European Honey bees (*Apis mellifera*)"

Advisor, Laurie Herrera '21, "Maximizing the Effectiveness of Wild Bee Surveying Methods"

Advisor, Kiera Malone '20, "Spider community changes over time"

Advisor, Mary Powley '19, "Native bee utilization of powerline right-of-way and agricultural land"

Co-Advisor, Houda Magzoub '19, "Investigating asthma triggers within New Brunswick homes"

Reader, Olivia Matisse '20

Reader, Nina Gangi '20

Reader, Michelle Arias '18

Reader, Taryn Mooney '18

Reader, Chris Brianik '17

Other Undergraduate Research Projects

Catherine Werkmeister '23, Honors College Capstone Project: "Assessing floral observations as a method of surveying bee abundance and diversity"

Declan O'Reilly '22, Biological Sciences Experiential Learning: "The Effects of different Light Wavelengths on Madagascar Hissing Roach (*Gromphadorhina portentosa*) Behavior"

Jordan Plaut '19, Research Problems in Ecology, Evolution and Natural Resources: "Interspecific competition between native and introduced bees"

Mary Powley, Rutgers, Honors Research Tutorial. "Use of potted plants to measure pollination spillover effect of bee-friendly habitat plots."

Tesia Lin, Rutgers, Research Problems Ecology, Evolution and Natural Resources: "Techniques of bumble bee identification methods: efficiency & accuracy."

Liza Chang, Rutgers, Research Problems Ecology, Evolution and Natural Resources: "Bumble bee diversity in response to vegetation management in an Oregon transmission line easement."

Kayla Drobnis, NJIT Provost's Summer Undergraduate Research Program "Promoting pollinator-friendly spaces: Effects of isolation and habitat continuity."

Michael Thomas, NJIT Independent Study, "Soil predictors of native bee diversity."

Sameen Mian, NJIT Provost's Summer Undergraduate Research Program "Analyzing bee nesting behavior"

Karina Arrelucea, Rutgers University, The Louis Stokes Alliance for Minority Participation (LSAMP), "The effects of powerline management on bumblebees."

Shahira Sanabria, Rutgers University (REU) "SPIDA-web module development: Incorporation of multiple images and automated image processing techniques"

Alexa Hawrysz, Columbia University "Automated species identification of bees"

Libby Williams, College of Wooster "The effects of salt marsh haying on benthic algal biomass"

Corey Fitch, College of Wooster "Use of a brain parasite as a tool for identifying the point of origin of wild caught salmon"

Julie Raffay, College of Wooster "Effects of hunger level and sex upon the foraging behaviors of the wolf spider, *Pardosa milvina* (Hentz)"

Laura Kriska, College of Wooster "The role of herbivory on coral growth in blue holes and patch reefs on Andros Island, Bahamas"

Chelsea O. B. Hunt, College of Wooster “Effects of isolation and pesticides on the pollinator community and seed set of wild mustard, *Sinapis arvensis*”

Jacqueline Doyle, College of Wooster “Effects of elevation, temperature and humidity on the abundance and diversity of salamanders in the Southern Appalachians”

Eric Pilko, College of Wooster “A study of the phylogenetic systematics of the Charadriiformes (Class: Aves)”

Katie McCreary, College of Wooster “Taxa and density of Zooxanthellae: patterns when comparing temperature, depth and iridescence”

Undergraduate Research Assistants (Rutgers University, EENR unless noted)

Current

Joey Shrager
Samantha Lavan

Majeed Assadi
Theresa Vitovitch
Thi Vu

Russell Gurland
Erika Klein
(Entomology)

Former

Tyshia Rennick
Tesia Lin
Ashley Esquilin
Liza Chang
Kiera Malone
Olivia Matisse
Anna Bashkirova
Adriana Chumacero
Tianqi Huang
(Biological Sciences)
Irene Fedyshyn
(volunteer; Major
Anthropology)
Brianna Casario
Samantha Michener
Daniella Angrisano
Catherine Flynn

Nayab Goraya
(Biological Sciences)
Anthony Bello
(Biological Sciences)
Jennifer Villishanay
(Animal Science)
Kain Porras
Mary Powley
Jordan Plaut
Rebecca Shultz
Ria Kobernuss
Ray Wang
Milena Forrest
Tiana Thomas
Mikaela Bilecki
(volunteer: Major
Animal Science)
Hexiang Yi

Connor Anderson
Thomas Gugliotta
Catherine Atwood
Katharine Mattaliano
(volunteer)
Lucas Brendel
(volunteer)
Malachi Kimzey
(volunteer; Major
Social Work)

Heather Daly
Fern Tatum
Mary Castellani
Jasmine Garcia

Ph.D. Students

Co-advisor, Sarah Kornbluth, Rutgers University

Committee Member, Dominic Evangelista, Rutgers University, Newark

Committee Member, Caroline DeVan, NJIT

MS Students

Committee Member, Olivia Matisse '23, Columbia University

Co-advisor, Denise Hewitt '12, Rutgers University (Co-advisor)

Committee Member, '12 Manpreet Kohli, Rutgers University, Newark

Field Experience

2021 – present. Mark-recapture of native bees in New York City.

2016 – 2022. Collection of bees & floral survey at nine locations along PSEG transmission line easements in New Jersey.

2011 - 2012 Collection of bees & observation of floral visitation by bees along powerline transmission easements in Oregon, Wisconsin and Maryland (funded by EPRI).

2008 Collection of bees from the Hackensack Meadowlands, NJ (funded by the Meadowlands Environmental Research Institute) using modified pan traps and netting.

2001 Collection of bees and other arthropods from the USGS Patuxent Wildlife Research Center, using modified pan traps and netting.

1995–1997 Collection of spiders from Nantahala National Forest, NC using pitfall traps, litter samples processed in Tullgren funnels, sweep netting, vegetation beating, and visual hand collection.

1995–1997 Collection of spiders from Knox County, TN using pitfall traps.

1996 Collection of spiders from lowland bogs of Scotland using pitfall traps.

1995 Collection of spiders from Everglades National Park, FLA using sweep nets and a suction device.

1994 Studies of populations of the desert spider, *Agelenopsis aperta* in Southeastern Arizona (at the Southwestern Research Station of the American Museum of Natural History).

1988 Observation and documentation of birds feeding at an experimental feeding station in Hamilton, NY.

1987 Collection and observation of dragonflies used in thermoregulation studies from sites in Hamilton, NY.

Lab Experience

2017-present. Identification of wild bee species collections from New Jersey.

2011- 2016. Identification of wild bee species collections from Maryland , Wisconsin & Oregon.

2002-present Specimen imaging using a digital camera (Q-Imaging micropublisher & Infinity 1-3C) and Leica MZ12.5 & Olympus SZX16 microscopes).

2000-2001 Identification of a collection of bees from Prince Georges Co. and Anne Arundel Co., MD (2921 individuals, 24 genera).

1998–1999 Identification of a collection of spiders from Macon Co., NC (5877 individuals, 125 species).

1999 Commissioned identification of a collection of spiders from the AEDC RTE Invertebrate Survey, central Tennessee (160 individuals, 54 species).

1997 Identification of a collection of spiders from Knox Co., TN (1264 individuals, 75 species).

1993–1994 Identification of a small collection of spiders from East Tennessee (50 species).