**Dowen Mae I. Jocson**

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**Background Information**

**Current position**

August 2018 PhD candidate, Washington State University, Pullman, WA

**Education**

December 2017 Master of Science in Biology, Saint Louis University, St. Louis, MO

May 2015 Bachelor of Science in Biology, Saint Louis University, St. Louis, MO

**Research Experience and Previous Positions**

* August 2018-Present: Dr. David Crowder and Dr. Elizabeth Beers Lab
  + Research: Developing mating disruption for pear psyllid pest management
  + Email: [dcrowder@wsu.edu](mailto:dcrowder@wsu.edu); [ebeers@wsu.edu](mailto:ebeers@wsu.edu)
* January 2018-May 2018: Ritenour School District, St. Louis, MO
  + Position: Substitute Teacher for a Special Education classroom
* June 2015-December 2017: Dr. Kasey Fowler-Finn’s Lab
  + Research: Temperature effects on mating behavior of treehoppers, *Enchenopa binotata*
  + email: [fowlerfinn@slu.edu](mailto:fowlerfinn@slu.edu)
* May 2013-May 2015: Dr. Peter Bernhardt’s Lab
  + Research: Pollination ecology of bird’s foot violet, *Viola pedata*
  + email: [bernhap2@slu.edu](mailto:bernhap2@slu.edu) | tel: 314-977-7152

**Awards and Honors**

2022 Outstanding PhD Student of the Year for the Department of Entomology in Washington State University (awarded $2000)

2022 Finalist of 3-Minute Thesis for the Department of Entomology in Washington State University (awarded $200)

2021 1st Place in the PhD 10-minute Paper competition for PI-E Field Crops, Entomological Society of America, Denver, CO

2021 Overall runner-up team for Student Debates, Entomological Society of America, Denver, CO

2021 Washington State University Department of Entomology Travel Grant (awarded $922)

2021 Washington State University Entomology Graduate Student Association Mini Grant (awarded $250)

2021 1st Place in the PhD 10-minute Paper competition, Pacific Branch Entomological Society of America (awarded $200)

2021 3rd Place in Graduate and Professional Student Association Research Expo (awarded $300)

2021 Honorable Mention in 3-Minute Thesis for the College of Agricultural, Human, and Natural Resource Sciences in Washington State University. (awarded $100)

2021 Finalist of 3-Minute Thesis for the Department of Entomology in Washington State University (awarded $200)

2020 Winner of 3-Minute Thesis for the College of Agricultural, Human, and Natural Resource Sciences in Washington State University. (awarded $1000)

2020 Finalist of 3-Minute Thesis for the Department of Entomology in Washington State University (awarded $200)

2019 Pacific Branch Entomological Society of America Travel Grant (awarded $200)

2019 Washington State University Department of Entomology Travel Grant (awarded $150)

2019 Washington State University Entomology Graduate Student Association Mini Grant (awarded $100)

2017 Graduate Student of the Year for the Department of Biology, Saint Louis University (awarded $150)

**Professional Society Membership**

2018-present Entomological Society of America

* 1. Animal Behaviour Society

**Research**

**Publications**

Jocson, D.I., Gonzales, M.T., Horton, D., Beers, E., Crowder, D. Characterizing substrate-borne vibrational mating signals produced by pear psylla. *In Prep*

Smith, O.M., Jocson, D.I., Lee, B.W., Orpet, R.J., Davis, A.G., Rieser, C.J., Clarke, A.E., Cohen, A.L., Hayes, A.M., Auth, C.A., Bergeron, P.E., Marshall, A.T., Reganold, J.P., Crowder, D.W., Northfield, T.D. Identifying farming strategies associated with achieving the UN Sustainable Development Goals.Frontiers in Sustainable Food Systems.

Jocson, D. 2020. Good Vibrations: A potential IPM strategy for pear psylla (*Cacopsylla pyricola*). WSU Tree Fruit Extension Center Newsletter. <https://tinyurl.com/8e2rys92>

Leith, N. T., Jocson, D. I., & Fowler‐Finn, K. D. 2020. Temperature‐related breakdowns in the coordination of mating in *Enchenopa binotata* treehoppers (Hemiptera: Membracidae). Ethology, 126(9), 870-882. *Published*

Jocson, D.I., Smeester, M., Leith, N.T., Macchiano, A., Fowler-Finn, K.D. 2019. Temperature coupling of mate attraction signals and female mate preferences in four populations of Enchenopa treehopper (Hemiptera: Membracidae). Journal of Evolutionary Biology. *Published*

Bernhardt, P., Edens-Meier, R., Jocson, D., Zweck, J., Ren, Z., Camilo, G.R., Arduser, M. 2016. Comparative floral ecology of bicolor and concolor morphs of *Viola pedata* (Violaceae) following controlled burning. Journal of Pollination Ecology. *Published*

**Presentations**

1. Dr. Rachele Nieri’s lab seminar, Rome, Italy. *Virtual*

2022 Invited Speaker |Behavioral Manipulation Symposium. Pacific Branch Entomological Society of America, Santa Rosa, CA.

2022 Oral Presentation |10-minute Student paper competition. Pacific Branch Entomological Society of America, Santa Rosa, CA.

2021 Oral Presentation |10-minute Student paper competition. Entomological Society of America, Denver, CO

2021 Oral Presentation |10-minute Student paper competition. Pacific Branch Entomological Society of America. *Virtual*

2021 Poster | Washington State University Academic Showcase and Graduate and Professional Student Association Research Expo. *Virtual*

2020 Invited Speaker | ARCS Seattle Luncheon. *Virtual*

1. Invited Speaker | North Central Washington Pear Day. Wenatchee, WA

2019 Oral Presentation |10-minute Student paper competition. Entomological Society of America, St. Louis, MO

1. Panel | Women in Agriculture panel for Washington legislative staff, Pullman, WA
2. Invited Speaker | Tree Fruit Research Extension Center Sunrise Field Day, Wenatchee, WA
3. Poster Presentation| Pacific Branch Entomological Society of America, San Diego, CA
4. Guest Speaker | Academy of Science St. Louis, St. Louis Public Library, St. Louis, MO

2017 Poster | Animal Behavior Society Conference at the University of Toronto-Scarborough, Toronto, Canada

1. Poster | SLEEC, Principia College, Elsah, IL

2016 Oral Presentation | Animal Behavior Society Conference at University of Missouri, Columbia, MO

2016 Poster | Graduate Student Association Symposium, Saint Louis University, St. Louis, MO

2015 Poster | SLEEC (Saint Louis Ecology, Evolution, and Conservation) Retreat, Saint Louis Zoo, St. Louis, MO

**Research Support**

2021 USDA NIFA Predoctoral Fellowship, “Using Vibrational Communication for Mating Disruption and Pest Management” (awarded $180,000)

2020 Washington State Commission on Pesticide Registration 2021 Funding. PI: David Crowder (awarded $24,768)

2019 USDA Innovation fund. PI: David Horton (~$20,000)

2018 Achievement Rewards for College Scientists (ARCS) Foundation Fellowship, Seattle Chapter (awarded $17,500)

2017 National Science Foundation, NSF IOS-1656818: Genetic change and genetic accommodation allow singing insects to adapt to temperature change. PI: Kasey Fowler-Finn; *Data contributor* (awarded ~$500,000)

2017 Reis Research Award for field work at the Reis Biological Station (awarded $600)

**Extension and Outreach**

**Media Contact**

2021 Capital Press coverage of my PhD research, Western Innovator: Controlling Pest with Good Vibrations - <https://www.capitalpress.com/ag_sectors/research/western-innovator-controlling-pests-with-good-vibrations/article_956c34e4-f56b-11eb-96cc-6387bfe80636.html?utm_medium=social&utm_source=twitter&utm_campaign=user-share>

2020 Featured in a centerfold article called “Psexy Psylla Psongs”, Good Fruit Grower magazine

2019 “Heat Changes Insect Call But It Still Works”. Scientific American. <https://www.scientificamerican.com/podcast/episode/heat-changes-insect-call-but-it-still-works/>

2015 Saint Louis Public Radio coverage of Master’s thesis research: <https://news.stlpublicradio.org/post/good-vibrations-these-bugs-do-their-sexting-plant-stem>

**Service**

**Professional Societies**

2022 Planning Committee for the Pacific Branch meeting of Entomological Society of America. *Volunteer*

2022 Co-organized a symposium with Dr. Jacquelyn Serrano (USDA-ARS) for the Entomological Society of America Pacific Branch: “Behavioral Manipulation”. Santa Rosa, CA. *Volunteer*

2020 Co-organized a symposium with Dr. Rachele Nieri (Oregon State University) for the Entomological Society of America Pacific Branch: “Behavioral Manipulation”. Spokane, WA (Meeting postponed). *Volunteer*

**Washington State University**

2022 Search Committee member for the Entomology Endowed Tree Fruit Chair. *Selected*

2022 Professional Development Officer for the College of Agricultural, Human, and Natural Resource Sciences (CAHNRS) Student Senate. *Elected*

2022 Vice President for the Entomology Graduate Student Association. *Elected*

2021 President for the Entomology Graduate Student Association. *Elected*

2020 President for the Entomology Graduate Student Association. *Elected*

2020 Student Lead for the Entomology Journal Club. *Volunteer*

2020 Founding member of the Department of Entomology Diversity, Equity, and Inclusion Committee. *Volunteer*

2020 Faculty Liaison for the Entomology Graduate Student Association. *Elected*

**Pullman/Palouse Community**

2022 Community Garden Fair. Outreach and Education table. *Volunteer*

2022 Insect Expo: Outreach and Education event. *Volunteer*

2021 Insect Expo: Outreach and Education event. *Volunteer*

2021 What’s buzzing at Koppel? A citizen science pollinator event. Outreach presentation in collaboration with the Palouse Conservation District. *Volunteer*

2019 Insect Expo: Outreach and Education event. *Volunteer*