

JOHN S. PARK

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EDUCATION

- 2015 - **PhD**, University of Chicago (Expected 2020)
The Committee on Evolutionary Biology
Adviser: Dr. J. Timothy Wootton
- 2014 **BSc**, Yale University
Ecology and Evolutionary Biology, Intensive track (received Distinction in Major)
Advisers: Dr. David Post, Dr. Stephen Stearns
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RESEARCH AREA

- Evolution of life history strategies in fluctuating environments
 - Phenological diversity in seasonal environments
 - Conceptualization, measurement, and causal inference of temporal niches in ecological communities
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AWARDS & DISTINCTIONS

- 2017 **Wayne C. Booth Graduate Student Prize for Excellence in Teaching**
Awarded to four graduate students across the University of Chicago; nominated by students and faculty
- 2017 **NSF Graduate Research Fellowship, Honorable Mention**
- 2014 **William R. Belknap 1872 Prize, Yale University**
Awarded for “*Excellence in Biology*” to one graduating senior at Yale University across Ecology & Evolutionary Biology, Molecular/Cellular/Developmental Biology, and Geology & Geophysics departments
- 2014 **The Explorers Club, NYC**
Nominated and elected to Member
- 2009 **“Canada’s Top 20 Under 20”**
Selected as one of 20 recipients under the age of 20 across Canada for ‘Innovation, Leadership, and Achievement’ by *The Globe and Mail* and *Youth in Motion*. Awarded for national-level activism work for Arctic Ocean conservation
- 2009 **Environmental Leadership Impact Award**
Awarded for ‘Outstanding Leadership in Environmental Issues’ by *Youth in Motion*, among Canada’s Top 20 Under 20
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PEER-REVIEWED PUBLICATIONS

Park, J.S. and Post, D.M. (2018). Evolutionary history of *Daphnia* drives divergence in consumption preference and alters temporal community dynamics of producers. *Ecology & Evolution*, 8 (2), 859-865.

Park, J.S. (2017). A race against time: habitat alteration by snow geese prunes the seasonal sequence of mosquito emergence in a subarctic brackish landscape. *Polar Biology*, 40 (3), 553-561.

PRE-PRINT

Park, J.S. (2018) Cyclical environments drive variation in life history strategies: a general theory of cyclical phenology. *bioRxiv*. doi:10.1101/450387.

MANUSCRIPTS IN PREP

Park, J.S. and Post, E.S. *in prep*. About Time: The Other Dimension of Pattern and Structure in Ecology.

PRESENTATIONS

Park, J.S., Dwyer, G., and Wootton, J.T. (2018). Evolution of life histories in cyclical environments: Theory and test in a tidepool copepod. Ecological Society of America, New Orleans, LA, USA.

Park, J.S. (2018) Life History Evolution in Cyclical Environments. Committee on Evolutionary Biology, University of Chicago, Chicago, IL, USA.

Park, J.S. (2017). Phenological diversity and ecological interactions: a story of snow geese and tundra mosquitoes. **Invited Symposium Speaker** in *Arctic, Antarctic, Alpine Insects: Research from the Earth's Coldest and Most Rapidly Changing Environments*, Entomological Society of America, Denver, CO, USA.

Park, J.S. (2016). Watching mosquitoes through the season: Questions about the temporal dimension in nature. **Invited Symposium Speaker**, The Explorers Club, Salt Spring Island, BC, Canada.

Park, J.S. (2014). Life history divergence in *Daphnia ambigua* and its multitrophic cascade effects on temporal community composition patterns in phytoplankton. Dept. of Ecology & Evolutionary Biology, Yale University, New Haven, CT, USA.

FELLOWSHIPS & GRANTS RECEIVED FOR RESEARCH

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| 2018 | Donald Steiner Award
Travel funding for collaborative research with Dr. Eric Post (UC Davis) on theory of phenological diversity in seasonal systems
<i>Amount: \$1,242</i> |
| 2016 - 2018 | Department of Education – Graduate Assistance in Areas of National Need
Graduate fellowship
<i>Amount: \$68,000</i> |
| 2016 | Hinds Evolutionary Biology Graduate Student Research Award
Dissertation research seed grant
<i>Amount: \$2,661</i> |
| 2013 | Yale Summer Environmental Fellowship for Research in EEB
Senior thesis research. Multitrophic eco-evolutionary consequences on algae temporal dynamics. Lab and field work in Post Lab
<i>Amount: \$2,000</i> |
| 2012, 2013 | Sherwood E. Silliman Fellowship for Scientific Research in the Natural Sciences, Yale University
Senior thesis research. Multitrophic eco-evolutionary consequences on algae temporal dynamics. Lab and field work in Post Lab
<i>Amount: \$1,000 each year</i> |

- 2012 **National Science Foundation REU (DEB #1019613) – Principal Investigator: David N. Koons, Utah State University**
Snow goose population dynamics and habitat use on a tundra saltmarsh habitat
Amount: \$7,100
- 2011 **Benjamin Silliman Fellowship, Yale University**
Tundra small mammal (microtine) population dynamics. Winter habitat use and summer abundance and distribution
Amount: \$1,000

PAST RESEARCH ACTIVITIES

- 2015 **Visiting Collaborator, University Centre in Svalbard**
High Arctic seasonal ecology collaboration with Dr. Øystein Varpe in Svalbard, Norway
- 2014 **Visiting Lab Member in Mayfield Lab, University of Queensland, Australia**
Field work in Western Australian York Gum woodlands and northern Queensland wet tropics, on projects investigating community assembly rules and competitive dynamics among native and invasive plant species
- 2014 **Teaching Assistant, University of Queensland**
Paid teaching assistant in a course on ecological methods and flora & fauna of Australia, taught on Fraser Island World Heritage Area, QLD; in charge of terrestrial invertebrate diversity
- 2012-2014 **Undergraduate Researcher in David Post Lab, EEB, Yale University**
Eco-evolutionary feedbacks and trophic cascade effects between *Daphnia*-phytoplankton in Post Lab towards a senior thesis, and aided with lab and field work
- 2011-2013 **Field Research in the Canadian Arctic**
2012-3 - Conducted an independent research project on mosquito life history and temporal diversity on the tundra. Simultaneously collaborated on avian ecology projects as part of the Hudson Bay Project
2011 - Worked as a research technician on a tundra small mammal population dynamics project collecting data on winter habitat use and summer abundance, while spending a field season in a remote camp on the tundra near Churchill, Manitoba. Involved with field work with the Hudson Bay Project team, helping with snow goose and common eider population dynamics work
- 2011-2012 **Paid Part-time Curator of the Entomology Teaching Collection, Yale University**
Prepared and identified arthropod specimens for the Department of Ecology and Evolutionary Biology at Yale University, selected from Dr. Marta Wells' class
- 2009 **Curatorial Intern at Museum of Comparative Zoology, Harvard University**
Assisted research collections projects in various departments such as Entomology, Ornithology, Herpetology, Invertebrate Zoology, and Invertebrate Paleontology for a summer during high school
- 2008 **Field Research Assistant in the Canadian Arctic**
Collected field data on tundra wetland ponds and frogs, and aided laboratory work in Churchill Northern Studies Centre in Churchill, Manitoba
- 2007 **Arctic Expedition**
Participated in an expedition through the eastern Canadian Arctic (*Students On Ice* program), with a team of experts from various disciplines and sixty admitted students from around the world

