

JOHN S. PARK

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APPOINTMENTS

2021-2023 **Marie Skłodowska-Curie Fellow**, University of Oxford

EDUCATION

2015-2021 **PhD**, University of Chicago

2010-2014 **BSc**, Yale University

PUBLICATIONS

Park, J.S. and Post, E.S. Phenological patterns and their evolution on a cyclical Earth: Towards first principles and null expectations. *PLoS Biology*, 20 (12), e3001952. <https://doi.org/10.1371/journal.pbio.3001952>

Park, J.S. and Wootton, J.T. (2021) Slower environmental cycles increase life history variation within populations. *Ecology Letters*, 24 (11), 2452-2463. <https://doi.org/10.1111/ele.13867>

Park, J.S. (2019) Cyclical environments drive variation in life history strategies: a general theory of cyclical phenology. *Proceedings of the Royal Society B*, 286 (1898). <https://doi.org/10.1098/rspb.2019.0214>

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. <https://doi.org/10.1002/ece3.3678>

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. <https://doi.org/10.1007/s00300-016-1978-y>

In review / revision

Park, J.S. and Felmy, A. (2022) Why the architecture of environmental fluctuation matters for fitness. *bioRxiv* 2022.04.21.489085. <https://doi.org/10.1101/2022.04.21.489085>

GRANTS & FELLOWSHIPS

2021-2023	Marie Skłodowska-Curie Individual Fellowship	€212,934
	Marie Skłodowska-Curie Actions, European Commission	
2019-2021	“Eco-evolutionary response to the scale of temporal environmental fluctuation”	\$459,600 USD
	National Science Foundation (NSF-OCE #1851489)*	
	<i>*Note: Award was under adviser JT Wootton’s name since I could not have PI status for an NSF grant as a graduate student, but I designed the research, and wrote >70% of the proposal</i>	

2018	Donald Steiner Award Fellow Biological Sciences Division, University of Chicago	\$1,242 USD
2015-2018	DoE GAANN Fellow United States Department of Education, Graduate Assistance in Areas of National Need	\$68,000 USD
2016	Henry Hinds Graduate Student Research Award for Evolutionary Biology Committee on Evolutionary Biology, University of Chicago	\$2,661 USD
2013	Environmental Fellowship for Research in Ecology and Evolutionary Biology School of the Environment, Yale University	\$2,000 USD
2012	Sherwood E. Silliman Fellow Silliman College, Yale University	\$2,000 USD
2012	Research Experiences for Undergraduates National Science Foundation (NSF-DEB #1019613)	\$7,100 USD
2011	Benjamin Silliman Fellow Silliman College, Yale University	\$1,000 USD

AWARDS

2018	Lotka Prize Ecological Society of America <i>Best theory poster</i>
2017	Wayne C. Booth Prize University of Chicago <i>Teaching award given to only 4 graduate students across the entire university; nominated by students and faculty</i>
2014	William R. Belknap 1872 Prize Yale University <i>Awarded to 1 graduating student at Yale University for "Excellence in Biology"</i>
2014	Distinction in Major, Intensive Track Yale University, Ecology and Evolutionary Biology

PRESENTATIONS

**Invited Speaker*

- *Park, J.S.** (2022). Cyclical fluctuations in the environment and their role in shaping life histories: Towards a null framework from eco-evolutionary first principles. *"Phenoweb" group at the Institute of Ecology and Evolution, University of Edinburgh.*
- *Park, J.S.** (2022). Cyclical fluctuations in the environment and their role in shaping life histories: Towards a null framework from eco-evolutionary first principles. Symposium on "Phenological Plasticity", *Society of Integrative and Comparative Biology, Phoenix, AZ, USA.*
- Park, J.S.** (2020). Slower environmental fluctuations increase life-history variation in populations. *Ecological Society of America, Virtual Conference.*
- Park, J.S.** (2019). Experimental test of life history evolution in cyclical and stochastic environments: implications for phenology and shifting cycles. *Ecological Society of America, Louisville, KY, USA.*

- ***Park, J.S.** (2018). Eco-evolutionary drivers of seasonal life histories. *University of California, Davis, CA, USA.*
- 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. *University of Chicago, Chicago, IL, USA.*
- ***Park, J.S.** (2017). Phenological diversity and ecological interactions: a story of snow geese and tundra mosquitoes. Symposium on “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. *The Explorers Club Symposium, 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. *Yale University, New Haven, CT, USA.*

TEACHING

- 09-12/2019 **Ecology & Conservation**, University of Chicago
Teaching assistantship with responsibilities including: running laboratory exercises and workshop modules, organizing and running 3 field trips, hosting weekly office hours, running exam review sessions, grading assignments and exams, and giving lectures.
- 01-03/2017 **Marine Ecology**, University of Chicago
Teaching assistantship with responsibilities including: hosting weekly office hours, running exam review sessions, mentoring term paper writing, contributing to exam and assignment design, grading, and giving lectures.
- 09-12/2016 **Ecology & Conservation**, University of Chicago
Teaching assistantship with responsibilities including: running laboratory exercises and workshop modules, organizing and running 3 field trips, and grading assignments and exams.
- 08-11/2014 **Australia’s Terrestrial Environment**, University of Queensland (AUS)
Teaching assistantship with responsibilities including designing and running a week-long intensive field course on Fraser Island, QLD, and giving workshops and lectures.

STUDENT SUPERVISION & MENTORING

- 2022: Anett Kiss. Informal adviser; PhD transfer of status assessor, University of Oxford
Andrew Wood. Informal adviser; PhD confirmation of status examiner, University of Oxford
- 2018-2019: Dalton Hammond. Undergraduate project, University of Chicago
- 2017-2019: Khashiff Miranda. Undergraduate project, University of Chicago
- 2017-2018: *Sole official graduate student mentor for 12 BS thesis writers in the Department of Ecology and Evolution, University of Chicago*
- 2017-2018: Zoe Dellaert. Undergraduate project, University of Chicago
- 2017-2018: Mélusine Velde. Undergraduate project, University of Chicago
- 2017-2018: Nora Spadoni. Undergraduate project, University of Chicago
- 2016-2017: Ty Bowyer. Undergraduate project, University of Chicago

OUTREACH

- 07-08/2018 Designed and ran ecology-themed games and activities as part of a summer camp for 4-6th grade students at Restoration Ministries, an organization for families in poverty with recovering addicts, and at-risk young parents.
- 2016-2018 Worked with the Fisheries Department of the Makah Tribe in the Olympic region of Washington State, USA to involve high school students in field projects on marine ecology on Tatoosh Island and nearby coastal sites.
- 2016 Organized an aquatic ecology interactive exhibit showcasing biodiversity from the local region, and the impacts of climate change, with a group of graduate students and faculty members from the University of Chicago.
- 2011-2013 Recruited Manitoban First Nations middle and high school students to participate in hands-on research projects and basic data entry and analysis, while conducting remote Arctic field work near Churchill, Manitoba, Canada.

SKILLS

- Advanced modelling, agent-based simulations, and statistical analysis in R
- High-performance UNIX based parallel cluster computing
- Version control software (GitHub)
- Typesetting (LaTeX, R Markdown)
- Vector graphics (Inkscape, Adobe Illustrator)

Peer reviewer for: *Ecology Letters, Evolution, Experimental Gerontology, Integrative and Comparative Biology, Journal of Animal Ecology, Journal of Theoretical Biology, Oikos*