

ISABEAU LEWIS

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RESEARCH INTERESTS

I am an evolutionary ecologist interested in the forces promoting and constraining the persistence of plant species in space and time. I am particularly drawn to sexual system transitions, trade-offs, and plasticity.

EDUCATION

BSc. (Honours with Distinction) 2019 – 2023

Queen's University

Major in Biology / Minor in French

Honours thesis: Interactions between sex phase and flower colour in the invasive weed *Saponaria officinalis*. (Supervisor: Dr. Jannice Friedman)

Independent research mentorship: Kin discrimination influences investment in flowering and clonal growth in perennial *Mimulus guttatus* (Supervisor: Dr. Jannice Friedman)

PUBLICATIONS

1. **Lewis, I.** (2023). Petals, protandry, and plasticity: Interactions between sex phase and flower colour change in the invasive weed *Saponaria officinalis*. Queen's University. Bachelor's Honours Thesis. Supervisor: Dr. Jannice Friedman.

AWARDS

Scholarships & Grants

2023	Queen's University J. Allen Keast Lake Opinicon Undergraduate Fellowship	\$2500 CAD
2023	National Sciences and Engineering Research Council of Canada Undergraduate Student Research Award	\$6000 CAD
2023	Society for the Study of Evolution Undergraduate Diversity at Evolution Program (declined)	-
2022	Queen's University J. Allen Keast Lake Opinicon Undergraduate Fellowship	\$3000 CAD
2022	Botanical Society of America Undergraduate Student Research Award	\$500 USD
2022	National Sciences and Engineering Research Council of Canada Undergraduate Student Research Award	\$6000 CAD
2019	Schulich Leader Scholarship For excellence in STEM and leadership potential	\$80 000 CAD

Awards & Recognitions

2023	Canadian Society for Ecology and Evolution Best Talk – Second Place	\$600 CAD
2023	Ontario Ecology, Ethology, and Evolution Colloquium Best Poster – Second Place	\$100 CAD
2023	Ontario Ecology, Ethology, and Evolution Colloquium American Genetic Association Travel Award	\$405 CAD
2023	Queen's University Dean's Honour List with Distinction	-
2023	Ontario Biology Day Canadian Botanical Association Prize for Best Oral Presentation in Botany	\$100 CAD
2022	Queen's University Dean's Honour List	-
2022	Ontario Ecology, Ethology, and Evolution Colloquium Award for Best Poster in Evolution	\$100 CAD
2021	Queen's University Dean's Honour List	-
2020	Queen's University Wallace Near Prize in French	\$285 CAD
2020	Queen's University Dean's Honour List	-

SEMINARS

*Invited

2023	University of Western Ontario Biology Evolution Seminar Series Lewis, I., & Friedman, J. Plant responses to dynamic environments: rooting for the underdog in evolutionary biology!*	Online
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CONFERENCE PRESENTATIONS

†Talk ^Poster ‡Lightning talk *Presentation award

2023	Canadian Society for Ecology & Evolution / Canadian Botanical Association (joint meeting)†*	Winnipeg, MB, CA
2023	Ontario Ecology, Ethology, and Evolution Colloquium ^*	London, ON, CA
2023	Ontario Biology Day †*	St. Catharine's, ON, CA
2023	Queen's University Biology Undergraduate Thesis Poster Day ^	Kingston, ON, CA
2022	Botanical Society of America Annual Meeting ‡	Online
2022	Ontario Ecology, Ethology, and Evolution Colloquium ^*	Kingston, ON, CA

RESEARCH EXPERIENCE

Field Team Leader (Queen's University, July 2023)

I supervised an ongoing project on floral advertisement and sex allocation.

BIOL537 Honours Thesis Project - National Sciences and Engineering Research Council of Canada Undergraduate Student Research Award (Queen's University, May 2022 – August 2023)
I investigated responses in floral advertisement and sex allocation to variable pollinator visitation in a common garden. I designed and conducted a follow-up study in summer 2023.

BIOL538 Independent Research Project (Queen's University, January 2021 – April 2021)
I investigated responses in vegetative and generative growth to neighbour relatedness in a greenhouse experiment.

Field & Greenhouse Research Technician (Queen's University, September 2021 – August 2023)
I assisted on projects investigating a) the heritability of clonality; b) the evolution of wind pollination; c) intra- and inter-year resource allocation under pollinator limitation; d) phenotypic variation between a species' native- and non-native ranges.

Field & Greenhouse Research Assistant - Summer Work Experience Program (Queen's University, May 2021 – August 2021)
I assisted on projects investigating a) the heritability of clonality; b) the evolution of wind pollination; c) intra- and inter-year resource allocation under pollinator limitation.

BIOL402 Plant Physiology Research Project (Queen's University, January 2021 – April 2021)
I investigated the effects of gibberellic acid on the lipid and chlorophyll composition of an herb.

VOLUNTEER SERVICE

Organizer – Queen's University Biology Undergraduate Thesis Poster Day Committee (February – March 2023)
I organized Poster Presentation Day for the Queen's University Biology Department undergraduate honours thesis course. I selected an invited speaker, coordinated presentation award judging, and planned refreshments.

Board Member – Ontario Public Interest Research Group Kingston (May 2021 – December 2023)
I coordinated social and environmental justice programming for university students and community members. This included organizing talks, mixers, independent working groups, and long-term programming series.

Coordinator – New, Exchange, Worldly, and Transfer Students (NEWTS) Orientation Week (February 2022 – September 2022)
I planned and led a week-long orientation for 400 incoming exchange and international students at Queen's University. I additionally coordinated and presented a week-long training series for Orientation Week leaders.

Leader – New, Exchange, Worldly, and Transfer Students (NEWTS) Orientation Week (September 2021; January 2023)
I welcomed a group of 30 incoming exchange and international students to Queen's University during a week-long orientation. I organized independent social activities and supported students after Orientation Week.

Graphic Design Executive – Queen's for Parkinson's Kingston (January 2021 – May 2022)
I coordinated graphic design for blog and social media posts for Queen's for Parkinson's Kingston, an organization dedicated to raising awareness and funds for Parkinson's Disease.

PROFESSIONAL MEMBERSHIPS

Student Member – Society for the Study of Evolution (Jan 2024 –)

Student Member – American Genetic Association (June 2023 –)

Student Member – Canadian Botanical Association (April 2023 –)

Student Member – Botanical Society of America (March 2022 – February 2023)