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**

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| 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**

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| 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 †

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| 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 |

**CONFERENCE PRESENTATIONS**

†Talk ΔPoster ‡Lightning talk \*Presentation award

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