

Benjamin Marcy-Quay

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Rubenstein Ecosystem Science Laboratory

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EDUCATION

2020 Ph.D. Cornell University, Natural Resources
2015 M.S. Cornell University, Natural Resources
2010 B.S. Allegheny College, Environmental Science

EMPLOYMENT

2020 – present Postdoctoral Associate, Rubenstein Ecosystem Science Laboratory, University of Vermont
2012 – 2020 Graduate Research Assistant, Department of Natural Resources, Cornell University
2011 – 2012 Fish and Wildlife Technician, New York State Department of Environmental Conservation

TEACHING

ESS 1101: Introduction to environmental science and sustainability (4 credits), Teaching Assistant, Fall Semesters 2014, 2015, 2018, 2019
NTRES 3400: Molecular tools for ecology (4 credits), Teaching Assistant, Spring Semester 2016

PUBLICATIONS

Peer-reviewed journals (*student mentee)

8. Marsden, J.E., Schumacher, M.N., Wilkins, P.D., **Marcy-Quay, B.**, Alger, B. Rokosz, K. Kozel, C.L. (2022). Diet differences between stocked and wild age-0 to age-3 lake trout indicate influence of early rearing environments. *Journal of Great Lakes Research*.
7. **Marcy-Quay, B.**, Kraft, C.E.(2021). Diel movement by white suckers (*Catostomus commersonii*) in connected northern lakes. *Northeastern Naturalist*. 28(4),430-443.
6. Marsden, J.E., **Marcy-Quay, B.** (2020) A generalized model for correcting bias due to permeability using emergent fry traps in mesocosm experiments. *Fisheries Research*. 233:105769.
5. **Marcy-Quay, B.**, Sethi, S. A., Therkildsen, N. O., and Kraft, C. E. (2020). Expanding the feasibility of fish and wildlife assessments with close-kin mark-recapture. *Ecosphere*, 11:03259.
4. Andres, K., Sethi, S., Duskey, E., Lepak, J., Rice, A., Estabrook, B., Fitzpatrick, K., George, E., **Marcy-Quay, B.**, Paufve, M., Perkins, K., and Scofield, A. (2020) Seasonal habitat use indicates depth may mediate the potential for trophic impacts of invasive round goby in inland lakes. *Freshwater Biology*. 65(5), 1-11.
3. **Marcy-Quay, B.**, Jirka, K.J. and Kraft, C.E. (2019) Time versus space: choice of effort metric can avoid bias in boat electrofishing CPUE. *North American Journal of Fisheries Management*. 39(6), 1207-1216.

2. Bemis*, K. E., **Marcy-Quay, B.**, Galbraith, J. K., Wuenschel, M. J., Sullivan, P. J., and Bemis, W. E. (2018). Deep-Water Dragonets (Teleostei: Callionymidae: Foetorepus) of the Mid Atlantic Bight: A Little-Known Genus from the Edge of the Continental Shelf. *Copeia*, 106(1), 188-198.
1. Alexiades, A.V., **Marcy-Quay, B.**, P.J. Sullivan, and Kraft, C. E. (2014). Measurement error in angler creel surveys. *North American Journal of Fisheries Management*. 35(2), 253–261.

Technical Reports

Alexiades, A. V., **Marcy-Quay, B.**, Sullivan, P. J., and Kraft, C. E. (2014). Evaluation of the NYSDEC Catch Rate Oriented Trout Stocking Program: Project Report. *New York Department of Environmental Conservation, Albany, New York, USA*.

PRESENTATIONS

Invited presentations

Marcy-Quay, B., Alexiades, A.V., Sullivan, P.J., and Kraft, C. E. Assessing Changes to New York’s Stream Trout Fishery. New York American Fisheries Society Chapter Annual Meeting, Geneva, NY February 5, 2014.

Contributed presentations

Marcy-Quay, B., Sethi, S., Therkildsen, N., and Kraft, C. E. Expanding the feasibility of fish and wildlife assessments with close kin mark recapture. New York American Fisheries Society Chapter Annual Meeting, Lake Placid, NY February 5, 2020. ***Best Student Paper**

Marcy-Quay, B., K.J. Jirka, C.E. Kraft. A comparison of Three Boat Electrofishing Effort Metrics. New York American Fisheries Society Chapter Annual Meeting, Poughkeepsie, NY February 7, 2019. ***Best Student Paper**

Marcy-Quay, B. Community Response to Smallmouth Bass Removal – Long Term Review. New York American Fisheries Society Chapter Annual Meeting, Cooperstown, NY February 8, 2018.

Marcy-Quay, B., K.J. Jirka, C.E. Kraft. Handling time biases time-based boat electrofishing catch per unit effort. Annual Meeting of the American Fisheries Society, Tampa, FL August 20, 2017.

Marcy-Quay, B. Trap-shy trout and day tripping suckers: results from a second year of PIT telemetry. Adirondack Research Forum, Old Forge, NY March 1, 2017.

Marcy-Quay, B., K.J. Jirka, C.E. Kraft. Handling time biases time-based boat electrofishing catch per unit effort. New York American Fisheries Society Chapter Annual Meeting, Buffalo, NY February 3, 2017.

Marcy-Quay, B. and C.E. Kraft. Evaluating closed mark-recapture model assumptions in a lacustrine brook trout population. New York American Fisheries Society Chapter Annual Meeting, Cooperstown, NY February 3, 2016.

Marcy-Quay, B. Assessing spawning site fidelity of brook trout using multiple, independent small-scale PIT arrays. Annual Meeting of the American Fisheries Society, Portland, OR, August 17, 2015.

Marcy-Quay, B. Assessing spawning site fidelity of brook trout using multiple, independent small-scale PIT arrays. Adirondack Research Forum, Old Forge, NY March 11, 2015.

Marcy-Quay, B. Assessing spawning site fidelity of brook trout using multiple, independent small-scale PIT arrays. New York American Fisheries Society Chapter Annual Meeting, Lake Placid, NY February 5, 2015.

FUNDING

2021	Great Lakes Fishery Commission: Quantifying abundance and recruitment in a re-establishing lake trout population using close-kin mark-recapture. (<i>co-written with J.E. Marsden</i>)	\$171,778
2021	Lake Champlain Sea Grant Research Funding: Lake trout stocking strategy performance using genetic tools. (<i>co-written with J.E. Marsden</i>)	\$131,530
2019	Kieckhefer Adirondack Fellowship: Close-kin mark-recapture assessment of acidification recovery.	\$9,620
2017	Kieckhefer Adirondack Fellowship: Diel movement of white suckers.	\$5,000
2016	Federal Hatch Act Multistate Research Fund: Lake trout response to invasive species. (<i>co-written with C.E. Kraft</i>)	\$75,000
2015	Adirondack League Club Fellowship: Assessment of salmonine recovery.	\$24,095
2015	Kieckhefer Adirondack Fellowship: Brook trout movement using PIT telemetry.	\$5,000
2014	Kieckhefer Adirondack Fellowship: Development of novel PIT arrays.	\$5,000

STUDENT MENTEES (with current position)

Savannah Zigic, post-baccalaureate researcher, University of Vermont, 2021 (deckhand, University of Vermont)

Grace Hemmelgarn, undergraduate researcher, Allegheny College, 2020-21(current mentee)

Hannah Gottesman. B.S. honors thesis, Cornell University, 2020 (Ph.D. student, University of Florida)

Max Cassell. B.S. honors thesis, Cornell University, 2020 (Investigator, USDA)

Manuel Carballo, undergraduate researcher, Cornell University, 2018 (current student)

Daniel Farthing, undergraduate researcher, Cornell University, 2017 (Research Associate, Indigo Agriculture)

Katherine Bemis, B.A. honors thesis, Cornell University, 2014 (Curator of Fishes, Smithsonian)

OUTREACH

New York Training Coordinator. North American Amphibian Monitoring Program.
New Paltz, NY. 2012