

Talia Young

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Department of Ecology & Evolutionary Biology
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EDUCATION

- Rutgers University, *New Brunswick, NJ*** 2010-2016
Ph.D. in Ecology & Evolution
Dissertation title: *You are more than what you eat: Using biomarkers to investigate aquatic trophic relationships at multiple scales*
Advisor: Dr. Olaf Jensen
Participant, Rutgers Pre-Doctoral Leadership Initiative (2013-2014)
- University of Pennsylvania, *Philadelphia, PA*** 2004-2007
Teacher certification in secondary-level Biology (PA)
- Swarthmore College, *Swarthmore, PA*** 1997-2001
Bachelor of Arts in Biology. Recipient: Leo M. Leva Prize in Biology

GRANTS, AWARDS & FELLOWSHIPS

- United States Department of Agriculture Local Food Promotion Program Grant (Solo PI)** 2016-2019
Project title: "Developing and implementing a model for a diverse, urban, school-based community-supported fishery program" (\$266,425 awarded, with \$88,910 match)
- David H. Smith Conservation Postdoctoral Research Fellowship** 2016-2018
Project title: "Conservation implications of community-supported fishery (CSF) programs: A multidisciplinary analysis of ecological, economic and social outcomes"
Supervised by: Dr. Simon Levin (Princeton), Dr. John Manderson (NOAA-NMFS), Dr. Kevin St. Martin (Rutgers), Josh Stoll (U Maine), Dr. Chris Kennedy (George Mason)
- Rutgers University - Graduate School of New Brunswick, *Bevier Dissertation Completion Fellowship*** 2015-2016
- Washington Biologists Field Club, *Research Award*** 2015
Project title: "Using stable isotopes to study trophic dynamics of sea nettles and ctenophores" (\$2900)
- Socio-Ecological Synthesis Center (SESYNC), *Graduate Student Pursuit (Co-PI with two others)*** 2014
Project title: "Shifting fish and shifting fishers: Examining fishing communities' responses to range shifts of marine fish species"
- Rutgers University Marine Field Station, *Graduate Funding Award***
Project title: "Trophic relationships of jellyfish in Barnegat Bay/Little Egg Harbor" (\$1000) 2014
Project title: "Assessing jellyfish abundance in developed creeks" (\$1500) 2013
Project title: "Comparing gear effectiveness for sampling gelatinous zooplankton" (\$1500) 2012
- Rutgers University, *Graduate Assistantship*** 2011-2013
- Union of Concerned Scientists - Ecological Society of America / Student Section, *EcoService Award*** 2012
- Manasquan River Marlin & Tuna Club, *George Burlew Scholarship*** 2011-2014
- National Science Foundation (NSF) *Graduate Research Fellowship (GRF)*** 2010-2013

TEACHING & MENTORSHIP EXPERIENCE

- Program Developer and Teacher** 2011-2016
Fisheries & Calculus Mini-Course, Mastery Charter School, Philadelphia, PA
Developed and taught 6-week course on applications of math in fisheries science, including programming and modeling using R.
- Advanced Ecology Program, Mastery Charter School, Philadelphia, PA*
Sea Nettle Ecology Program, Marine Academy of Technology and Environmental Science, Manahawkin, NJ
Developed and taught after-school programs for high school students intended to expose underrepresented minorities and first-in-their-family college attendees to research science.
- Intern Supervisor, National Science Foundation Research Experience for Undergraduates (NSF REU),**
Rutgers University Marine Field Station, Tuckerton, NJ 2011-2013
Supervised undergraduate summer research interns, including project development, execution, presentation, one of whom won first prize in Research in Ocean Sciences (RIOS) poster contest.
- Biology Teacher, Mastery Charter Schools, Philadelphia, PA** 2006-2010
Taught Introductory and Advanced Placement Biology to public high school students and wrote curriculum and benchmark examinations.
- Program Director, Woodrock, Inc., Philadelphia, PA** 2003-2006
Directed environmental education and leadership program on conflict resolution, community organizing, vacant land conversion and stormwater management for public high school students.
- Biology Teaching Assistant, Swarthmore College, Swarthmore, PA** 2000-2001
Assisted and conducted laboratory sessions and study clinics on cell biology, microbiology, embryology, genetics, evolution, ecology, plant and animal physiology.

OTHER PROFESSIONAL EXPERIENCE

- Neighborhood Planning Coordinator** 2001-2003
Norris Square Civic Association, Philadelphia, PA
Acquired over \$250,000 for sustainable development projects, coordinated installation of photovoltaic panels on fourteen low-income housing projects, assisted with community design process for development of community farmers' market, and used GIS to analyze neighborhood land use and vacancy patterns.

PUBLICATIONS

- T Young**, O Jensen, B Weidel, S Chandra. 2015. Natural trophic variability in a large, oligotrophic, near-pristine lake. *J Great Lakes Research* 41: 463-472.
- T Young**, S Komarow, L Deegan, R Garritt. 1999. Population size and summer home range of the green crab, *Carcinus maenas*, in salt marsh tidal creeks. *Biological Bulletin* 197: 297-299.
- S Komarow, **T Young**, L Deegan, R Garritt. 1999. Influence of marsh flooding on the abundance and growth of *Fundulus heteroclitus* in salt marsh creeks. *Biological Bulletin* 197: 299-300.
- In press*
P Tsogtsaikhan, B Mendsaikhan, G Jargalmaa, B Ganzorig, B Weidel, CM Filosa, CM Free, **T Young**, OP Jensen.
Comparison of age and growth of lenok, *Brachymystax lenok* (Pallas 1773), and grayling, *Thymallus spp.*, in lentic and lotic habitats of northern Mongolia. *J Applied Ichthyology*.
- In review*
T Young, J Pincin, P Neubauer, S Ortega-Garcia, OP Jensen. Do highly mobile predators demonstrate individual diet specialization?
- In prep*
T Young & E Fuller, K Coleman, M Provost, K St Martin, M Pinsky. Adaptation strategies of resource-dependent coastal communities. Target journal: *Nature Climate Change*

PRESENTATIONS (*Denotes mentored high school or undergraduate student project)

- Ocean Sciences, 2016 Meeting**, New Orleans, LA Feb 2016
Oral presentation: “How are fishing patterns and fishing communities responding to climate change?”
(**T Young**, E Fuller, K Coleman, M Provost, K. St Martin, M Pinsky)
- American Fisheries Society, Mid-Atlantic Chapter, 2015 Annual Meeting**, Cape May, NJ Oct 2015
Poster: “Combining models and interviews shows many factors contribute to sea nettle abundance in Barnegat Bay” (**T Young**, J Vasslides, E Buenaventura, MB Decker)
- American Fisheries Society, 145th Annual Meeting**, Portland, OR Aug 2015
Oral presentation: “Catch diversity may buffer fishing communities from the effects of climate change”
(**T Young**, E Fuller, K Coleman, M Provost, K St Martin, M Pinsky)
Poster: “Are striped marlin ‘true’ generalists? A three-pronged approach”
(**T Young**, J Pincin, S Ortega-García, P Neubauer, O Jensen)
- Ecological Society of America, 100th Annual Meeting**, Baltimore, MD Aug 2015
Oral presentation: “Individual diet specialization in striped marlin”
(**T Young**, J Pincin, S Ortega-García, P Neubauer, O Jensen)
Oral presentation: “Two birds, one stone: Using local ecological knowledge (LEK) to elucidate ecological processes and increase engagement of students in science” (**T Young**)
- American Fisheries Society, 144th Annual Meeting**, Quebec City, Quebec, Canada Aug 2014
Oral presentation: “Combining local ecological knowledge (LEK) with field surveys to elucidate ecological patterns: a case study of an estuarine jellyfish” (**T Young**, MB Decker, J Vasslides, M Kaneshiro-Piñeiro)
- Save Barnegat Bay, Annual Meeting**, Toms River, NJ Jul 2014
Oral presentation*: “Using local ecological knowledge to describe sea nettle population dynamics in Barnegat Bay, NJ” (M Chang, T Donovan, Q Dunlea, A Grace, C Leahy, M Martin, B Minotti, B Palmer, S Porras, R Whitsitt, Z Zega, **T Young)
- American Council for Mongolian Studies, Annual Meeting**, Philadelphia, PA Mar 2014
Poster: “Trophic variability in a simple, pristine lake: What are the implications for studying change in other lakes?”
(**T Young**, B Weidel, S Chandra, O Jensen)
- Ocean Sciences, 2014 Meeting**, Honolulu, HI Feb 2014
Poster: “Trophic variability in a simple, pristine lake: What are the implications for studying change in other lakes?”
(**T Young**, B Weidel, S Chandra, O Jensen)
Poster*: “Histological analysis of reproductive biology of an estuarine jellyfish (*Chrysaora quinquecirrha*)” (J Gezymalla, **T Young, J Vasslides, M Kaneshira-Piñeiro)
- American Fisheries Society, Mid-Atlantic Chapter, 2013 Annual Meeting**, Tuckerton, NJ Nov 2013
Oral presentation*: “Using local ecological knowledge to describe sea nettle population dynamics in Barnegat Bay, NJ” (M Chang, T Donovan, Q Dunlea, A Grace, S Kuras, C Leahy, M Martin, B Minotti, B Palmer, S Porras, R Whitsitt, Z Zega, **T Young)
Poster*: “LEK vs. USGS: Comparing information from fishermen with government-collected data regarding the range of an invasive species of fish, northern snakehead (*Channa argus*), in the Philadelphia region” (P Bowen, E Chea, D Do, T Dy, O Handoko, K Koing, B Lac, A Lam, Z Lassiter, E Lau, J McKnight, M Nie, H Tang, K Williams, P Yann and **T Young)
- Society for Conservation Biology, 26th International Congress**, Baltimore, MD Jul 2013
Poster: “Trophic variability in a simple, pristine lake: What are the implications for studying change in other lakes?”
(**T Young**, B Weidel, S Chandra, O Jensen)
- American Fisheries Society, Mid-Atlantic Chapter, 2012 Annual Meeting**, Wilmington, DE Nov 2012
Oral presentation: “Barnegat Bay: an ideal habitat for sea nettles, *Chrysaora quinquecirrha*”
(**T Young**, N Sassano, J Barny, U Howson, J Nickels, S Whitebread, J Vasslides)

- American Fisheries Society**, 142nd Annual Meeting, St. Paul, MN Aug 2012
- Ecological Society of America**, 97th Annual Meeting, Portland, OR Aug 2012
- Oral presentation*: “Interannual trophic variability in a pristine north temperate lake”
(**T Young**, O Jensen, B Weidel, S Chandra)
- Oral presentation*: “From field trips to Facebook: A low-cost model for conducting ecology outreach with urban minority high school youth” (**T Young**)
- Mongolia Ecological Research Symposium**, Tuckerton, NJ Feb 2012
- Oral presentation*: “Making connections: Examining trophic relationships in a pristine Mongolian lake with high school students in Philadelphia using stable isotope analysis” (**T Young**, M Brickle, M Clark, O Handoko, A Huynh, A Nguyen, A Nguyen, A Lam, D Lewis, N Marsico, M Muhammad, S Small, K Wint)

SERVICE

- Co-founder, **Smith Fellowship Diversity Committee** 2016-present
Increase diversity in applicant recruitment, and support diversity training for program fellows and alumni.
- Member, **Society for Conservation Biology (SCB) Equity, Inclusion, and Diversity Committee** 2014-present
Engage broader community of students and professionals in SCB’s activities.
- Founder, **Women of Color in STEM Lunch**, Rutgers University 2015-2016
Organize monthly lunch for women of color in STEM.
- Member, **Ecology & Evolution Diversity Focus Group**, Rutgers University 2015-2016
Plan outreach initiatives.
- Manuscript reviewer, *Canadian Journal of Fisheries and Aquatic Sciences, Marine Ecology Progress Series* 2012-present
- Co-coordinator, **Ecology & Evolution Graduate Student Association seminar**, Rutgers University 2011-2013

REFERENCES

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| Olaf Jensen
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Rutgers University
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Lucy Stone Hall
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| Malin Pinsky
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14 College Farm Road
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Department of Human Ecology
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| Simon Levin
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