Casey Youngflesh

Department of Ecology and Evolution
Stony Brook University – Stony Brook, NY 11790
Phone: (970) 759-5238 | Email: casey.youngflesh@stonybrook.edu
Website: www.caseyyoungflesh.weebly.com | ORCID iD: 0000-0001-6343-3311

EDUCATION

2013-Present **Ph.D. Ecology and Evolution**
Stony Brook University – Stony Brook, NY
Advisor: Heather Lynch

2011 **Master of Conservation Biology (*with distinction*)**
University of New South Wales – Sydney, Australia

2007 **B.S. Ecology and Evolution**
University of California, Santa Cruz – Santa Cruz, CA

PROFESSIONAL APPOINTMENTS

2016-Present **NASA Earth and Space Science Graduate Fellow**
Stony Brook University – Stony Brook, NY

2015-Present **Guest Student**
Woods Hole Oceanographic Institution – Woods Hole, MA

2014-Present **Affiliated Student**
Institute for Advanced Computational Science – Stony Brook University – Stony Brook, NY

2012 **Science Division Intern**
Oceana – Washington, DC

Research Assistant
2008-2009 Galápagos Sea Lion Project – Galápagos Islands
2008 Alaska Sea Life Center – Seward, AK
2007-2008 California Condor Recovery Program – USFWS – Ventura, CA
2007 Sinervo Lab – UC Santa Cruz – Santa Cruz, CA
2006 National Marine Mammal Laboratory/Costa Lab – UC Santa Cruz – Año Nuevo Island, CA

GRANTS AND AWARDS

2016-2017 NASA Earth and Space Science Fellowship (NESSF) – NASA (**$75,000**)
2016, 2017 Robert R. Sokal Award for Statistical Biology – Stony Brook University (**$1290**)
2016 Institute for Advanced Computational Science Travel Award – Stony Brook University (**$2000**)
2015 Real Brown Travel Award – Ecological Society of America (**$300**)
2015 Alexander Goetz Award – ASD Inc. (**Instrument loan + publication fees**)
2015 Grant in Aid of Research – Sigma Xi (**$700**)
2014 Legacy Society Exploration Fund Research Grant – Explorers Club (**$4000**)
2014 Excellence in Research Award – Stony Brook University (**$1250**)

2013 Course Scholarship Award – National Outdoor Leadership School (**$2000**)
2013 Recruitment Fellowship – Stony Brook University (**$2000**)

PUBLICATIONS

Youngflesh, C, S Jenouvrier, JT Hinke, L DuBois, J St. Leger, WZ Trivelpiece, SG Trivelpiece, HJ Lynch. Rethinking normal: synchrony-enhanced stochasticity in the breeding phenology of a colonial seabird. **In Review at *Journal of Animal Ecology***

Che-Castaldo**,** C, S Jenouvrier, **C Youngflesh**, K Shoemaker, G Humphries, P McDowall, L Landrum, M Holland, Y Li, R Ji, HJ Lynch. Spatial aggregation reveals robust dynamics despite stochastic noise in pan-Antarctic analysis of Adélie penguin abundance. **Accepted at *Nature Communications***

Youngflesh, C, S Jenouvrier, Y Li, R Ji, DG Ainley, G Ballard, C Barbraud, K Delord, KM Dugger, LM Emmerson, WR Fraser, JT Hinke, POB Lyver, S Olmastroni, CJ Southwell, SG Trivelpiece, WZ Trivelpiece, HJ Lynch. 2017. Circumpolar analysis of the Adélie penguin reveals the importance of environmental variability in phenological mismatch. **Ecology** 98:940-951. **[featured cover story]**

PRESENTATIONS

**denotes undergraduate mentee*

Youngflesh, C, M Polito, M Schwaller, S Serbin, HJ Lynch. 2017. Environmental forcing of Antarctic food web dynamics – a multi-tiered approach employing multispectral imagery, field spectroscopy, and stable isotope analysis. NASA Biodiversity and Ecological Forecasting Team Meeting. Washington, DC (Oral Presentation and Poster)

Thorsen, K*, **C Youngflesh**, HJ Lynch. 2017. Climate indices explain variation in fur seal pup mortality. URECA Research Symposium. Stony Brook, NY (Poster)

Youngflesh, C, Y Li, R Ji, S Jenouvrier, HJ Lynch. 2016. Adélie penguin response to environmental conditions challenges accepted wisdom regarding phenological match-mismatch. Scientific Committee on Antarctic Research Open Science Conference. Kuala Lumpur, Malaysia (Oral presentation)

Youngflesh, C, S Jenouvrier, Y Li, R Ji, G Ballard, WR Fraser, HJ Lynch. 2016. Stochasticity in breeding phenology – importance of breeding synchrony in a colonial seabird. Ecological Society of America Annual Meeting. Fort Lauderdale, FL (Poster)

Youngflesh, C, Y Li, S Olmastroni, S Jenouvrier, HJ Lynch. 2015. Environmental drivers of penguin phenology – divergent responses of the Adélie penguin. Ecological Society of America Annual Meeting. Baltimore, MD (Oral presentation)

Keledjian, AJ, B Lowell, **C Youngflesh**. 2013. Bycatch and cumulative impacts in U.S. fisheries: where are they now? International Sea Turtle Symposium. Baltimore, MD (Poster)

Keledjian, AJ, S Young, C **Youngflesh.** 2013. Trends in bycatch reduction research: regional patterns, implementation gaps, and future needs. Biennial Conference on the Biology of Marine Mammals. Dunedin, New Zealand (Oral presentation)

SOCIETY MEMBERSHIP

Ecological Society of America (ESA)
Sigma Xi

Association of Polar Early Career Scientists (APECS)
Explorers Club

SERVICE/OUTREACH

2017	Science Educator – Grads for Education and Outreach
2016-2017	Naturalist – Friends of the Ashley Schiff Park Preserve
2016-2017	Vice President – Ecology and Evolution Club Stony Brook University
2014-2017	Public outreach presentations aboard Antarctic expedition ships
2016	Reviewer for Real Brown Travel Award – Ecological Society of America
2016	Session Convener (OSC 26) – Scientific Committee on Antarctic Research OSC
2015	Reddit Ask Me Anything (AMA) Panel – Association of Polar Early Career Scientists
2015	EcoArt Science/Art Communication Panel – Ecological Society of America
2013-2014	Departmental Representative – Graduate Student Employment Union
Ad-hoc reviewer	*Global Change Biology (2)*

TEACHING

Summer 2017 **Instructor**
Statistics and Data Analysis: A Conceptual Approach (BIO 211) – Stony Brook University – Stony Brook, NY

August 2016 **Instructor Assistant**
Data Carpentry Workshop – Stony Brook, NY

Spring 2014 **Teaching Assistant**
Applied Ecology and Conservation Biology Laboratory (BIO 356) – Stony Brook University – Stony Brook, NY

Fall 2013 **Teaching Assistant**
Fundamentals of Scientific Inquiry Laboratory (BIO 204) – Stony Brook University – Stony Brook, NY

STUDENTS MENTORED

2015-2017	Katla Thorsen (undergraduate) – Stony Brook University – Stony Brook, NY
2016	Lisa Jakubczyk (undergraduate) – Stony Brook University – Stony Brook, NY

SOFTWARE AUTHORED

MCMCvis Tools to visualize, manipulate, and summarize MCMC output. R package available on CRAN (https://CRAN.R-project.org/package=MCMCvis).

ADDITIONAL TRAINING

2017	Bayesian Modeling Short Course – National Socio-Environmental Synthesis Center (SESYNC)
2015	Remote Sensing Polar Boot Camp – Polar Geospatial Center (PGC)

2015	Graduate Environmental Data Analytics Short Course – National Center for Atmospheric Research (NCAR)
2014	Spatial and Quantitative Ecology Workshop – Smithsonian Conservation Biology Institute (SCBI)
2014	Computational Summer Institute – National Socio-Environmental Synthesis Center (SESYNC)