Stephen K. Formel

221 Claiborne Court Jefferson, LA 70121

Cell: 917-972-7947

EDUCATION

Tulane University PhD in Ecology and Evolutionary Biology under Dr. Sunshine Van Bael	New Orleans, LA Aug. 2015 to Present
Hunter College BA in Biological Sciences, Magna Cum Laude	New York, NY June 2015
Rochester Institute of Technology BFA in Film and Animation	Rochester, NY June 2004
PAST RESEARCH EXPERIENCE	
Hunter College - Lab of Dr. Diana P. Bratu Research Assistant	New York, NY Oct 2012 to July 2015
Marine Biological Laboratory - Lab of Dr. Scott Brady Research Assistant	Woods Hole, MA Summers of 2013 and 2014
AWARDS	
Louisiana Environmental Education Commission Grant \$1200	Spring 2017
Tulane EEB Department Graduate Research Grant \$1834	Winter 2016
NSF Graduate Research Fellowship \$138,000	Spring 2016
Garden Club of America Wetlands Scholarship \$5000	Spring 2016
Louisiana Board of Regents Fellowship \$120,000	Fall 2015
Else Seringhaus Award for Excellence in Research in Biological Scien \$150	ces Spring 2015
Hunter College Undergraduate Research Fellowship \$1200	Spring 2015
HHMI Summer Undergraduate Scholarship \$6000	Summer 2013

Curriculum Vitae

Email: steveformel@gmail.com

Website: sformel.github.io

PUBLICATIONS

Formel, S. K., Mighell, K.L., Bernik, B.M., Kandalepas, D., Jarrell, E., Blum, M.J., Pardue, J., Van Bael, S.A. *Soil Microbial Communities of Two Salt Marshes in Recovery Following an Oil Spill*. manuscript in preparation.

Bayer, L. V., Batish, M., Formel, S. K., and Bratu, D. P. (2015). Single-Molecule RNA In Situ Hybridization (smFISH) and Immunofluorescence (IF) in the Drosophila Egg Chamber. *Drosophila Oogenesis: Methods and Protocols, 125-136.*

POSTER PRESENTATIONS

Society of Wetland Scientists Annual Meeting "Soil Microbial Communities of Two Salt Marshes in Recovery Following an Oil Spill"	2017
American Society of Microbiology Annual Meeting *Soil Microbial Communities of Two Salt Marshes in Recovery Following an Oil Spill"	2017
Gulf of Mexico Research Initiative (GoMRI) Annual Meeting "Diversity of Salt Marsh Soil Microbial Communities After Oil Exposure"	2017
• "Diversity of Salt Marsh Soil Microbial Communities After Oil Exposure"	2016
Hunter College Undergraduate Research Conference "Visualizing the Dynamic Composition of oskar mRNP during Drosophila melanogaster Oogenes	2015 sis"
Translational Control Meeting at Cold Spring Harbor Laboratory "Visualizing the Dynamic Composition of oskar mRNP during Drosophila melanogaster Oogenes	2014 sis"
• Hunter College Undergraduate Research Conference "Using Squid to Study the Pathogenic Pathway of Mutant SOD1 in ALS"	2014
ORAL PRESENTATIONS	
Invited lecture to the Garden Club of America, New Orleans Chapter "Little Things Matter Too: The Potential Role of Microbes in Salt Marsh Conservation"	2017
MBL Undergraduate Research Symposium "Searching for the Missing Link in the Pathogenic Pathway of Mutant SOD1 in ALS"	2013
• Hunter College Summer Undergraduate Research Symposium "Searching for the Missing Link in the Pathogenic Pathway of Mutant SOD1 in ALS"	2013
TEACHING	
Teaching Assistant: Diversity of Life Taught two lab sections	Fall 2017
Teaching Assistant: Theory and Methods in Ecology and Evolutionary Biology Assisted with Lectures and Grading	Spring 2018
Guest Lecture: Conservation Biology Economic Aspects of Conservation	Spring 2018
Guest Lecture: Insect Biology Ecosystem Services of Insects	Fall 2015
Guest Lecture: Genomics Introduction to Metagenomics Software and Analysis, designed and taught lab and homework	Spring 2018

SERVICE

Sci High High School Science Fair Judge	Oct 2017
Ecolunch Seminar Coordinator	Sept 2016 to Present
CREEP Vice President	Sept 2016 to Sept 2017
 Workshop leader for "Boys at Tulane in STEM" (BATS) 	Sept 2017
Led storytelling workshop for graduate students and faculty Ecology and Evolutionary Biology Dept. at Tulane University	Mar 2017
• Workshop leader for "Boys At Tulane in STEM" (BATS) for 5th -7th grad	de boys Oct 2016
• Lecture at Ursuline Academy (high school) on symbiosis and biodivers	sity Aug 2016
• Supported workshop at "Girls in STEM at Tulane" (GIST) for 5th -7th gi	rade girls Mar2016
Labor for bald cypress swamp restoration project with Coalition to Restore Coastal Louisiana (CRCL)	Dec 2015
• Judge for New Orleans Charter Science and Math High School Science	Pair Dec 2015
• Supported workshop at "Girls in STEM at Tulane" (GIST) for 5th -7th gi	rade girls Nov 2015

CAREER GOALS

During my undergraduate career, I focused on gaining a solid grasp of lab benchwork, cellular biology and molecular genetics. In my PhD I am integrating that knowledge with my interest in community dynamics and love for coastal wetlands. My immediate career goals are to add to our knowledge of endophyte community interactions and to contribute to wetland science and ecology by completing a thorough and rigorous study of the endophytes of *Spartina alterniflora* in the Gulf of Mexico. In the first three years of my doctoral studies I have found myself drawn to the theoretical and technical questions of the data science underlying metagenomic community analysis. Over the next 2 years I look to improve my knowledge of bioinformatics and data science and to use all of my skills to actively participate in the science community as well as in communicating science to the public, in preparation of my long-term goal to work as a research scientist and teacher.

REFERENCES

Dr. Sunshine Van Bael	Dr. Diana Bratu	Dr. Scott Brady
504-862-8291	(212) 772-5235	312-996-3313
svanbael@tulane.edu	bratu@genectr.hunter.cuny.edu	stbrady@uic.edu
6823 St. Charles Avenue,	Department of Biological Science	Rm CME 567C
Suite 400 Boggs	Hunter College	University of Illinois at Chicago
Department of Ecology	Room 904 Hunter North	Chicago, IL 60612
and Evolutionary Biology	695 Park Avenue, New York,	
New Orleans, LA 70118	NY 10065	