

Justin M. Bernstein
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EDUCATION

Villanova University 2014–Present
Master of Science in Biology Current GPA: 3.84
Villanova, PA Expected Graduation Date: May 2016

State University of New York: College of Environmental Science and Forestry 2008–2012
Bachelor of Science in Environmental Biology, Cum Laude GPA: 3.13
Syracuse, NY

Graduate Record Examination Scores December, 2013
Quantitative Reasoning: 155
Qualitative Reasoning: 153
Verbal Reasoning: 5.0

SKILLS

Laboratory: Microscopy, centrifuging, inoculation, sterilization, surgical equipment, field and lab observations, steam distillation, gel electrophoresis, gram staining, cell counting, polymerase chain reaction, gel electrophoresis, DNA extraction, magnetic bead clean-up reactions, DNA sequencing (Sanger)

Computer: Microsoft Office, Microsoft Excel, Cerner Software, Salesforce, Drupal, Google Ads, Phylogenetic analysis programs, Geneious®, RAxML, MrBayes (CIPRES)

RESEARCH/PUBLICATIONS

Phylogenetic analysis, species identification and delimitation of New Caledonian geckos and skinks using DNA barcoding *In preparation*
with A. M. Bauer, T. R. Jackman, S. K. Chapman, and Y. Wang

- Utilizing CO1 DNA barcoding for species identification and delimitation of gecko and skink genera endemic to New Caledonia.
- Performing phylogenetic analyses of New Caledonian herpetofauna using the CO1 gene.
- Making comparative phylogenetic analyses between the mitochondrial CO1 gene and the mitochondrial and nuclear genes, ND2 and RAG1 respectively.

Using alien resources: Caribbean dwarf geckos utilizing invasive flora *Submitted*
with A. H. Griffing, J. D. Daza, T. Gamble, and A. M. Bauer

- First report of communal nesting in *Sphaerodactylus* cf. *klauberi* and *S. notatus* on Puerto Rico and Great Inagua Island, Bahamas, respectively.
- Embryological observation and molecular analyses performed to attribute species identification to *Sphaerodactylus* geckos.
- Evidence of native species utilizing alien flora (mango and she-oak trees) for nesting purposes.

A survey of mitochondrial DNA sequence variation in Panamanian birds reveals cryptic diversity.

In preparation

- Utilization of barcode and distribution data of Panamanian birds
- Observance of multiple mitochondrial lineages and BINs for particular species provide evidence for cryptic diversity in previously described Panamanian avifauna.

TEACHING/PROFESSIONAL EXPERIENCE

Teaching Assistant

Villanova, PA

Class: General Biology I

August 2015–Present

- Teach two lab sections and construct students on how to conduct biological experiments.
- Proctor exams, present presentations to students on course material, and grade assignments and exams.

Green Schools Alliance

New York, NY

Content Editor

April 2013–Present

- Posts events and resources on website database that serve to link registered green schools.
- Investigates websites for accurate information on environmental and website information.
- Finds organization contact information for outreach purposes.
- Adds schools and content to organization database using Drupal and updates database via Salesforce.

West Orange Animal Hospital

West Orange, NJ

Veterinary/Technician Assistant

March 2004–Present

- Analyzes and interprets blood samples and screens for local disease prevalence.
- Obtains patient information, acting as client's liaison to veterinarian.
- Administers daily patient care including surgical recovery, prescription filling, and administering medication.
- Trains new employees at West Orange Animal Hospital.

St. Barnabas Medical Center

Livingston, NJ

Phlebotomist

December 2012–August 2014

- Obtains blood samples from patients using various venipuncture methods.
- Disposes of biohazard and contaminated fluids in accordance with federal regulations.
- Matches laboratory requisition forms to specimen tubes.
- Scans specimens into Cerner database in preparation for different analyses.
- Trains new employees that enter the Pathology Lab for phlebotomy positions.

College Level Teaching Assistant and Tutor

Syracuse, NY

Comparative Vertebrate Anatomy

January–May 2012

- Tutored students in Comparative Vertebrate Anatomy.
- Lab teaching assistant for comparative vertebrate anatomy, performed class dissections, aided students in laboratory instruction and procedures, created and led student study sessions, tested students on material, graded student papers, and administered lab practicals.

Animal Emergency Referral and Associates

Fairfield, NJ

Animal ICU Technician/Veterinary Assistant

Summer, 2010–2011

- Drew blood and prepared blood, fecal, and urine samples for analysis using chemistry analyzer equipment.
- Administered IV fluids, timely medications, and injections to patients.
- Provided assistance with X-rays and ultrasound procedures.

COMMUNITY PUBLIC SERVICE

Safe Options Society

Syracuse, NY

Co-founder and Administrator of Alternative Options Society

2011–2012

- Co-founded Safe Options Society.
- Created and hosted campus events for alternative options.
- Hosted seminars and events to promote substance awareness.

Page Wildlife Center

Manlius, NY

Member of the Central New York Society for Conservation Biology

August 2008

- Built habitat, cleaned current habitat, and fed and released rehabilitated wild animals.

SOCIETY MEMBERSHIPS

Study for the Society of Amphibians and Reptiles

2015–Present

CONFERENCES/PRESENTATIONS

Society for the Study of Amphibians and Reptiles

Lawrence, Kansas

University of Kansas

July 2015

- Presented a poster on master's thesis research: Phylogenetic analysis, species identification and delimitation of New Caledonian geckos and skinks using DNA barcoding.

6th International Barcode of Life Conference

Guelph, Ontario, Canada

University of Guelph

August 2015

- Presented a poster on master's thesis research: Phylogenetic analysis, species identification and delimitation of New Caledonian geckos and skinks using DNA barcoding.
- Won Genome Prize for Research Excellence for student poster presentation.

AWARDS

Genome Prize for Research Excellence

August 2015

6th International Barcode of Life/Genome – NRC Research Press

Graduate Studies Travel Award

June 2015

Villanova University

Travel Award for Research Excellence

June 2015

6th International Barcode of Life Conference

Department of Biology Summer Research Fellowship

May 2015

Villanova University

Graduate Student Semester Research Fellowship

May 2015

Villanova University

Graduate Student Summer Research Fellowship

Villanova University

April 2015

Graduate Research Assistantship

Villanova University

March 2015

Tutor of the Semester Award for Comparative Vertebrate Anatomy

SUNY: College of Environmental Science and Forestry

May 2012

REFERENCES

- Dr. Aaron M. Bauer Aaron.bauer@villanova.edu
- Dr. Todd R. Jackman Todd.jackman@villanova.edu
- Dr. Juan D. Daza Jdd054@shsu.edu