

Alexandra Buczek

Data Scientist

Enthusiastic data scientist, skilled in research and communication. Experienced in utilizing Python and R to organize and clean data, run statistical analyses, and visualize results. Experienced professional in research and communication to both expert and general audiences.

Work History

2016-09 - Current	PhD Candidate <i>American Museum Of Natural History, New York, NY</i> <ul style="list-style-type: none">Cleaned and organized ecological abundance data (60 samples with 300+ species) using Python Pandas and NumPyUtilized ordination and statistical analyses in R and PythonVisualized data and results using R ggplot2 and Python matplotlib and seabornEmployed Jupyter Notebooks for enhanced accessibility and sharing of coding pipelinesCommunicated methodology, results, and implications of research via presentations to the general public (1) and academic audiences (5) and published academic papers
2018-09 - 2018-12	Adjunct Professor <i>Hunter College, New York, NY</i> <ul style="list-style-type: none">Taught Introduction to Computer Science lab section, providing instruction to up to 30 undergraduate studentsInstructed students using discussions and demonstrations in Python and C++
2018-07 - 2018-12	Teacher and Content Expert <i>AMNH Lang Science Program, New York, NY</i> <ul style="list-style-type: none">Created lectures and planned learning activities to facilitate understanding of scientific method for up to 20 high school studentsEvaluated and revised lesson plans and course content to facilitate and moderate classroom discussions and student centered learningEnhanced student learning by optimizing wide range of instructional approaches and innovative classroom activities.Implemented and encouraged debate-style classroom environment to increase student engagement and promote critical thinking

Education

2016-09 - Current	Ph.D.: Comparative Biology <i>American Museum of Natural History - Richard Gilder Graduate School - New York, NY</i>
2012-09 - 2016-05	Bachelor of Science: Geology-Biology <i>Brown University - Providence, RI</i>

Contact

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Skills

Data Cleaning	<div><div></div><div></div><div></div><div></div><div></div></div>
MS Office	<div><div></div><div></div><div></div><div></div><div></div></div>
Organization	<div><div></div><div></div><div></div><div></div><div></div></div>
Technical writing	<div><div></div><div></div><div></div><div></div><div></div></div>
Data collection and analysis	<div><div></div><div></div><div></div><div></div><div></div></div>
Python	<div><div></div><div></div><div></div><div></div><div></div></div>
Data visualizations	<div><div></div><div></div><div></div><div></div><div></div></div>
Science Communication	<div><div></div><div></div><div></div><div></div><div></div></div>
Science Presentation	<div><div></div><div></div><div></div><div></div><div></div></div>

Languages

Spanish	<div><div></div><div></div><div></div><div></div><div></div></div>
Polish	<div><div></div><div></div><div></div><div></div><div></div></div>

Grants and Awards

2017 – 2020	NSF Graduate Research Fellowship
2016 – 2020	RGGGS Graduate Fellowship
2018	RGGGS Sydney Anderson Travel Award
2017 – 2018	AMNH Lerner Gray Memorial Fund
2017 – 2018	Paleontological Society Student Research Grant
2017 – 2018	GSA Graduate Student Research Grant Program

Publications

Buczek, A. J., Hendy, A., Hopkins, M. & Sessa, J.A. (2020). On the Reconciliation of Biostratigraphy and Strontium-Isotope Stratigraphy of Three Southern Californian Plio-Pleistocene Formations. Accepted for Publication, March 2020: *GSA Bulletins*.

Velazco, P. M., **Buczek, A. J.**, & Novacek, M. J. (2017). Two New Tritylodontids (Synapsida, Cynodontia, Mammaliaforma) from the Upper Jurassic, Southwestern Mongolia. *American Museum Novitates*, 3874(3874), 1–35.
<http://doi.org/10.1206/3874.1>