

Alexandra Buczek

PhD Candidate

Enthusiastic data scientist, skilled in research and communication. As a PhD Candidate, utilized both Python and R to organize and clean data, run statistical analyses, and visualize results. Experienced in academic research and communication to both academic 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 data 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 public presentations and published academic papers
2018-09 - 2018-12	Adjunct Professor <i>Hunter College, New York, NY</i> <ul style="list-style-type: none">Taught CSci 127 - 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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WWW https://ajbuczek.github.io/

Skills

Data Cleaning	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Very Good</div>
MS Office	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Excellent</div>
Organization	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Excellent</div>
Technical writing	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Excellent</div>
Data collection and analysis	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Very Good</div>
R	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Good</div>
Python	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Very Good</div>
Data visualizations	<div><div></div><div></div><div></div><div></div><div></div></div> <div>Very Good</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>