

# Zachary D. Alexander

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## EDUCATION

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- Harvard Extension School, CS50x, Harvard University | Oct 2014 - 2015
- B.A. in Biology | St. Mary's College of Maryland, St. Mary's City, MD | August 2008 - May 2012

## RESEARCH EXPERIENCE

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### Center for Effective Philanthropy (CEP), Cambridge, MA

#### Senior Research Analyst | August 2017 - Present

- Work within SPSS, SQL, and R to analyze large-scale quantitative and qualitative datasets, using inferential statistics and qualitative coding techniques.
- Lead SQL trainings for internal staff on query syntax, transactions, and stored procedures.
- Contribute to the publication of 7+ CEP research reports from 2016 through 2018 (view our publications at: [www.cep.org/research/publications](http://www.cep.org/research/publications)).
- Lead survey administration and data collection processes for CEP's ongoing research.
- Produce clear and compelling content for research reports, highlighting findings and recommendations drawn from analysis.

#### Research Analyst | October 2015 - August 2017

- Used python, SQL, and Microsoft Excel to clean and combine 20,000+ grantee responses, storing data in CEP's robust dataset of over 400,000 individuals.
- Selected internally to lead the survey administration process for CEP's largest assessment tool, the Grantee Perception Report (GPR).
- Coordinated and managed the launch of 70+ surveys to funders throughout 2016 and 2017.
- Worked with 18 individual funders (with assets of \$5M or more) to help measure their grantee feedback. Produced reports, communicated directly with clients, and supported presentations to foundation boards, CEOs, and staff.
- Actively contributed to team discussions, collaborated on cross-team projects, and helped to develop CEP's internal knowledge base and operations.

### DragonSearch Digital Marketing, Kingston, NY

#### Digital Advertising Team Member | March 2015 - October 2015

- Managed client accounts for Web/Google Analytics, Conversion Rate Optimization, Pay Per Click Advertising, Search Engine Marketing, Google Adwords adjustments, Remarketing, and Online Lead Generation.
- Maintained client marketing and digital advertising budgets and relations.

### University of Puerto Rico, Rio Piedras, Puerto Rico

#### Research Assistant | September 2014 - December 2014

- Researched and monitored the diversity and growth of over 10,000 native tropical trees through a National Science Foundation (NSF) grant to understand the effect of land use legacies and natural disturbance on tropical forest ecology and tree community composition.
- Responsible for data entry and management of a Long-Term Ecological Research (LTER) database.

## **City Year Boston, Boston, MA**

### **School-Based Data VISTA Coordinator | July 2013 - July 2014**

- Collaborated with Boston Public School administration officials to identify and evaluate key trends in systems data across 10 district schools with the aim to lower high school dropout rates.
- Analyzed qualitative and quantitative data for 745+ students at the John P. Holland Elementary School.
- Provided and communicated data to multiple stakeholders at City Year Boston and its partners in the Boston Public School District.

### **City Year AmeriCorps Member | July 2012 - July 2013**

- Served as the Evaluation Coordinator at the Neighborhood House Charter School.
- Collaborated on projects analyzing student state-wide test scores, attendance data, and coursework information.
- Developed curriculum, taught, and led afterschool enrichment programs for underserved youth.

## **St. Mary's College of MD, St. Mary's City, MD**

### **Student Researcher | August 2011 - May 2012**

- Performed a year-long study to better understand the carbon sequestering potential of early successional forest types in Point Lookout State Park, MD.
- Used linear regression analysis to determine proper field method techniques and estimated carbon sequestration through the use of allometric equations.
- Senior Honor's Thesis: Forests as Carbon Sinks – Estimating Carbon Sequestration Across Successional Stages

## **The School For Field Studies, Queensland, Australia**

### **Student Researcher | January 2011 - May 2011**

- Conducted a directed research project estimating carbon sequestration of early successional rainforest trees in Queensland, Australia.
- Compared the effectiveness of two different allometric equations for estimating carbon sequestration by tree seedlings to inform national carbon accounting models.
- Contributed to a publication (Preece et al. 2015) addressing climate change mitigation policies in which farmers can utilize carbon credits that accurately account for young seedlings in above-ground biomass calculations.

## **INTERNSHIPS**

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### **Ecologic Development Fund, Cambridge, MA**

#### **Communications Intern | May 2012 - August 2012**

- Generated written content for the Ecologic website covering topics of agroforestry, REDD+, climate change, and deforestation.

### **Leidos, Aberdeen, MD**

#### **Communications Intern | June 2011 - January 2012**

- Provided briefing and meeting support for the United States Army Chemical Materials Agency (CMA).
- Conducted primary research of industry best practices in project and contract management.

## **PROGRAMMING SKILLS**

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- SQL (Microsoft SQL Server), experience running queries and stored procedures.
- Python, experience creating automation scripts utilizing the pandas library and basic web-scraping scripts.
- Front-end web development through HTML5, CSS, Javascript, AngularJS, Node.js, AJAX, JQuery
- Back-end web development through Express, MongoDB, HTTP
- R & R Studio
- Git, Gitbash, Github for version control
- Microsoft Excel and VBA