




# REBECCA GREEN

## DATA SCIENTIST

 PORTFOLIO: <https://begecky.github.io/Portfolio/>  
 LINKEDIN (CONTACT ME HERE): <https://www.linkedin.com/in/rgreen2/>  
 GITHUB: [github.com/Begecky](https://github.com/Begecky)

### SUMMARY

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Hard-working, detail-oriented and creative data scientist with recent experience in data analysis and entry-level data science for a local startup, involving collaboration with teams of varying sizes to accurately discern relevant, actionable information from raw datasets. Also communicated findings to directors and executive-level leadership via presentations and data visualizations.

Previous background in doctoral-level research, modern languages and teaching. Current projects include natural language processing and image recognition through neural networks.

### SKILLS

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- **Languages:** Python, beginning HTML and CSS
- **Python Libraries:** NumPy, Pandas, SKLearn, SKImage, Keras, Selenium, XMLTree
- **Image Annotation:** OpenCV / CVAT
- **Data Analysis:** Data wrangling, cleaning, exploratory and statistical analysis
- **Machine Learning:** Basic experience with Supervised and Unsupervised Learning, Regression, Classification, CNN, SVM and Gradient Boosting.
- **Visualizations:** Seaborn and Matplotlib
- **Basic Dev-Ops:** Google Cloud, Google Cloud Repositories, GitHub and API's
- **NLP:** Beginning experience with NLTK and classical languages using CLTK and BeautifulSoup

### EDUCATION

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- ✦ **THINKFUL - IMMERSIVE DATA SCIENCE PROGRAM** **REMOTE**  
1000+ hour program covering statistical methods for data analysis, supervised vs. unsupervised learning, and deep learning, including:
  - Standard algorithms and libraries for regression analysis, decision trees, clustering, and CNN
  - Exploratory analysis, wrangling, cleaning, predictive analytics, feature engineering, modeling, model assessment and accuracy optimization.
  - Typically used API integrations and Google Cloud to procure data for projects via Python and Pandas.
- ✦ **JOHNS HOPKINS UNIVERSITY - MA IN MEDIEVAL ITALIAN LITERATURE** **BALTIMORE, MD**
  - Gilman Fellowship Recipient: 2011 - 2014
  - Completed Translating the Past paleography program with the International Studies Institute of Florence.
- ✦ **MIDDLEBURY COLLEGE - MA IN ITALIAN LANGUAGE AND LITERATURE** **FLORENCE, ITALY**
- ✦ **UNIVERSITY OF COLORADO - BA IN ITALIAN, CLASSICS, MINOR IN PHILOSOPHY** **BOULDER, CO**

### CURRENT PROJECTS

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- ✦ **COMPUTER VISION – IMAGE AND LETTER RECOGNITION** **MARCH 2019 – CURRENT**
  - Utilizing the Epigraphic Database of Heidelberg's API to scrape 7,000+ images via Python and Selenium to build dataset.
  - Custom-annotated 5,000+ images via OpenCV (CVAT) and wrangling results with SKImage, Pillow, and XMLTree to prepare pixel arrays for model input.
  - Using SKLearn and Keras to build a CNN Model and assess layer structure for optimized results (75% accuracy so far).

✦ **NATURAL LANGUAGE PROCESSING – MEDIEVAL ITALIAN POEMS IN LATIN**

**MARCH 2019 – CURRENT**

- Using CLTK and open-source text files to explore medieval Italian poetry (written in Latin) via tokenization, word frequency, etc. so as to analyze characteristics typically unseen with human analysis.
- Currently assessing CLTK stop words and their adequacy for Latin used in medieval Italy.
- Ultimate goal: create a model which, when given an unlabeled text, accurately predicts the author, time-period, location within Italy and genre.

**PROFESSIONAL EXPERIENCE**

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✦ **CEIL FOLZ COLLECTIVE**

**EDWARDS, CO**

**DATA SCIENCE AND RESEARCH**

**JAN 2019 – APRIL 2020**

This company is a local startup offering consultation and support services to smaller and mid-sized non-profit organizations. Focused on sports-related non-profits, their team helps staff-members (from admin to c-suite executives) enhance operations through board analysis, donor relations, increasing audience, event organization and data management. In this role, I served as a resource for data issues, questions and projects to help the team create more value for their clients, including:

- Learning existing practices so as to offer solutions through data science, data engineering, exploratory analysis and data wrangling.
- Using Matplotlib and Seaborn for data visualizations when requested.
- Combining donor-wealth data with other datasets via Python to enrich donor information and reveal trends.
- Technologies used: Python, Pandas, NumPy, API Integrations, Matplotlib, Seaborn.

✦ **JOHNS HOPKINS UNIVERSITY**

**BALTIMORE, MD**

**UNDERGRADUATE LANGUAGE INSTRUCTOR / GRADUATE TEACHING ASSISTANT**

**Fall 2011 – Spring 2014**

- Independently instructed Italian language courses for undergraduates at JHU under supervision of the department's head language advisor/program coordinator.
- Fulfilled responsibilities such as teaching necessary skills and content, grading, holding office hours and administering exams.
- Collaborated with teammates, program coordinator and Disability Services to facilitate an equitable and efficient teaching program.

✦ **JOHNS HOPKINS UNIVERSITY**

**BALTIMORE, MD**

**JHU SHERIDAN LIBRARIES AND MUSEUMS USER EXPERIENCE GROUP**

**SEPT 2014 – FEB 2015**

I had the privilege of joining this team as an intern in both User-Experience and Information Architecture roles. Here, I started basic, introductory readings, tasks and projects in both fields, which included the following activities:

- Describing and analyzing qualitative interview data with NVivo.
- Collaborating with UX Director and team to design information architectures for academic research services.
- Studying and applying introductory UX literature and theory to potential projects.
- Starting basic training in Photoshop and digital design principles.

✦ **FOUNDATION FOR DEFENSE OF DEMOCRACIES**

**WASHINGTON D.C**

**RESEARCH ASSISTANT FOR DR. MICHAEL LEDEEN**

**MAY 2015 – AUG 2015**

- Performed detailed and culturally sensitive research of requested perspectives and subject matters.
- Provided summaries of pertinent sources in both English and Italian.

✦ **STARBUCKS COFFEE COMPANY**

**EDWARDS, CO**

**BARISTA AND BARISTA TRAINER**

**FEB 2015 – CURRENT**

- Train teammates to craft high-quality beverages in a rapid environment with a customer-oriented manner.
- Assist store managers and supervisors in coaching newer partners with customer service, professionalism, beverage precision and maintaining high company standards.
- AWARDS: Mug award: 11/2015. Partner of the Quarter: Fall 2016, Spring 2020.