ARTHUR KOEHL

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malgrenous.net

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Interests

Modern Europe, Modern France, Cultural History, Spatial History, Military History
Computer Vision, Network Analysis, NLP, GIS, Data Science, Web Programming, Web Scraping

Honors and Awards

Department Citation in History	2018
Highest Honors in History	2017
Most Innovative Thesis Award	2017
NSF-GRFP Honorable Mention	2017

Education

University of California at Davis	2018

Bachelor of Arts, double major Economics and History
Minor in Computer Science

Skills

C/C++, Python, Perl, R, Bash, Matlab, Java
Apache, Jetty, MySQL, PHP, Javascript, HTML5, CSS3
d3.js, Leaflet.js, QGIS, ArcGIS, Gephi

Experience

Data Science Initiative, UC Davis   2018-Current
——Staff Research Data Scientist
Collaborate directly with interdisciplinary faculty and graduate students to assist their research. Develop software tools for data collection, modeling, and visualization. Provide office hours for digital methods, natural language processing, and web programming. Manage teams of undergraduate and graduate student interns.

malgrenous.net   2017-Current
——Author
Created and maintain a website based on work for my senior thesis on the Malgre-Nous, advised by Professor Adam Zientek and Professor Greg Downs. Demonstrated the presence of Malgre-Nous on the Western and Eastern European fronts of the Second World War. Makes accessible the story of the Malgre-Nous for an English audience.

Digital Scholars Lab, UC Davis   2015-2018
——Student Research Assistant
Developed *Archive-Vision*, a content based image recognition software for Early modern printed images. Integrated Archive-Vision with UCSB English Broadside Ballad Archive's website. Designed and developed software to track linguistic changes in word usage using word embeddings, sentiment analysis, and part of speech tagging for historical texts. Designed and developed web interfaces (RESTful api) for these and other applications.

Center for Spatial and Textual Analysis, Stanford University   Summer 2016
——Student Research Assistant
Worked to generate the data, tools and resources necessary for my research on the Malgre-Nous (malgrenous.net). Worked with the Text Technologies team on interdisciplinary digital humanities projects.

Center for Bioimaging Science, National University of Singapore   2013-2015
——Student Research Assistant
Worked directly with the system administrator of the computing cluster for scientific computing over several summers. Benchmarked BLAS libraries under different conditions on the computing cluster. Implemented a comprehensive and customizable virtual environment for Python, allowing users to request modules and easily change between python versions. Wrote scripts to monitor disk and cpu usage as well as analyze the data.