JAMES **BAIN**
## Computational Anthropologist

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EDUCATION

2019	**Ph.D.** Anthropology, University of Missouri
2015	**M.A.** Anthropology, University of Missouri
2012	**B.A.** Anthropology, University of Missouri
	B.A. French, University of Missouri

ACADEMIC APPOINTMENTS

GRADUATE RESEARCH ASSISTANT *University of Missouri*

CHAOSS Project, Open Source Software Health — MAY 2018 - PRESENT
> Sloan Foundation Grant

Data Science and Analytics Master's Program — MAY 2016 - MAY 2018
> Instructor for *DSA 7600, Introduction to Data Science & Analytics*

Department of Plant Science, Corn Genetics & Breeding Lab — MAY 2014 - AUG 2014

Department of Psychology, Social Cognitive Neuroscience Lab — JAN 2013 - AUG 2013

GRADUATE INSTRUCTOR *University of Missouri*

ANTHRO 2050, Introduction to Biological Anthropology Lab — AUG 2015 - MAY 2016

INVITED GRADUATE RESEARCHER *Université Montpellier II*, France

Department of Human Evolutionary Biology — OCT 2013 - APR 2014

GRADUATE TEACHING ASSISTANT *University of Missouri*

ANTHRO 4580, Evolutionary Medicine — AUG 2014 - DEC 2014

ANTHRO 2580, Evolution of Human Sexuality (2 Semesters) — SPRING 2013 & FALL 2015

PUBLICATIONS

CONFERENCE PAPERS

Bain J & S Goggins. (2018) Mining linguistic diversity as a signal for identifying regions likely to adapt to the changing nature of work. *Work in the Age of Intelligent Machines* at ACM GROUP. Sanibel Island, FL, USA.

In Preparation

Bain J, S Goggins & R Walker. (2019) Non-linear scaling of diversity in cities: bayesian analysis of migrant language communities across the United States.

Bain J, S Goggins & R Walker. (2019) Scaling behavior of anti-immigrant sentiment: using Twitter to understand the linguistic geography of predjudice.

Bain J, L Cowgill (2019) Rodeo riders redux: a second look at Neandertal patterns of trauma.

OTHER PUBLICATIONS

Bain J (2015) Is 2d:4d a stable trait during child development? (Masters Thesis).

PRESENTATIONS

CONFERENCE PRESENTATIONS

Bain J & L Cowgill. (2017) Rodeo riders revisited: a second look at neandertal patterns of trauma. Presented at the 86th American Association of Physical Anthropology. New Orleans, LA, USA.

SOFTWARE

LOVELACE ⤳github.com/jcbain/lovelace
2018

`Lovelace` is a convolutional neural network designed to learn the semantics of short, unstructured text, such as Tweets. Models can be trained to classify the sentiment, author or category of text given the appropriately labelled training data.

`Python 3` `Tensorflow` `Pandas` `Numpy`

HATERZMAPPER ⤳github.com/jcbain/haterzmapper
2018

`Haterz Mapper` extends subsetting functionality of geometric simple features for simpler geographic analysis. This includes integrating with US Census API wrapper, `tidycensus`, to provide further data collecting capabilities.

`R` `tidycensus` `sf` `dplyr`

CUTTLEFISH ⤳github.com/jcbain/cuttlefish
2018

`Cuttlefish` is a color palette creator in which palettes can be created by supplying an image. Colors are selected by evenly spacing out colors on the color hue wheel.

`R` `colorspace` `magick`

HDI FORECASTER ⤳hdiforecaster.shinyapps.io/global_dev/
2018

A `Shiny` application designed to visualize the Human Development Index, and indicator of human development within a nation, and its regional forecasted trajector into 2030. This forecast modelled off of the ARIMA algorithm.

`R` `Shiny` `ggplot2`

MEDIA

SCIENCE NEWS (MAY 2017) *Water tubing accidents, table run-ins cause neandertal-like injuries* by BRUCE BOWER.

ARCHAEOLOGY (MAY 2017) *Can fossil fractures be linked to Hominin behavior*.

INVERSE (MAY 2017) *Water tubing mishaps look a lot like Neanderthal injuries* by SARAH SLOAT.

OTHER EXPERIENCE

DATA ANALYST *Universal Research Solutions, LLC*   JUNE 2017 - PRESENT

QUALITY ASSURANCE SPECIALIST *Universal Research Solutions, LLC*   MAY 2015 - JUNE 2017

LANGUAGES

SPOKEN

English *(maternal)*

French *(proficient in speaking, reading and writing)*

PROGRAMMING & DATABASE

Python ● ● ● ● ○   R ● ● ● ● ○   JavaScript ● ● ● ● ○   PostgreSQL ● ● ● ● ○

MySQL ● ● ● ● ○   Go ● ● ● ● ○   Ruby ● ● ● ● ○