

JOE BREW

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Carrer de Cienfuegos
Entresol 2da
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Languages

Native: English
Fluent: Spanish, French, Catalan
Proficient: Portuguese

Expert: R, SAS
Professional: Python, Stata
Proficient: Javascript, SPSS

Education

PhD (in progress)	<i>January 2016-</i>
<i>Institut de Salut Global (host institution)</i>	BARCELONA, SPAIN
<i>Vrije Universiteit (secondary institution)</i>	AMSTERDAM, HOLLAND
<i>Centro de Investigação em Saúde de Manhiça (research site)</i>	MANHIÇA, MOZAMBIQUE

- Research on the cost effectiveness and efficacy of malaria control interventions

Master of Public Health	<i>September 2011 - July 2013</i>
<i>Københavns Universitet (year 2)</i>	COPENHAGEN, DENMARK
<i>Escuela Andaluza de Salud Pública (year 1)</i>	GRANADA, SPAIN

- Coursework in epidemiology, economic evaluation, demography, advanced biostatistics, management, health policy, health promotion

Master of Arts	<i>September 2009-June 2010</i>
<i>Institut Catholique de Paris</i>	PARIS, FRANCE

- MA in Contemporary Diplomatic History, fieldwork on negotiations leading to Paris Peace Accords

Bachelor of Arts	<i>August 2004-May 2008</i>
<i>Sewanee: The University of the South</i>	SEWANEE, TN, USA

- Triple major in Contemporary Non-Western History, Spanish, French

Publications

Peer-reviewed papers

Tran C, **Brew J**, Johnson N, Ryan K, Martin B, Cornett C, Caron B, Duncan R, Small P, Myers P, Morris J. *Sustainability of School-located Influenza Vaccination Programs in Florida*. Vaccine.

(Accepted, publication pending) (2016)

Lednický J, Iovine N, **Brew J**, Loeb J, Sugimoto J, Rand K, Morris J. *Hemagglutinin Gene Clade 3C.2a Influenza A(H3N2) Viruses, Alachua County, Florida, USA, 2014–15*. Emerging Infectious Diseases

DOI: 10.3201/eid2201.151019 (2016)

Potash E, **Brew J**, Loewi A, Majumdar S, Reece A, Walsh J, Rozier E, Jorgenson E, Mansour R, Ghani R. *Predictive Modeling for Public Health: Preventing Childhood Lead Poisoning*. ACM SIGKDD International Conference on Knowledge Discovery and Data Mining

DOI: 10.1145/2783258.2788629 (2015)

Iovine M, Morris JG, Fedenburg K, Rand K, Alnuaimat H, Lipori G, **Brew J**, Lednický JA. *Increased severity of H1N1 influenza in the 2013-14 season and emergence of the D225G variant*. Emerging Infectious Diseases

DOI: 10.3201/eid2104.141375 (2015)

Brew J. *(Mis)measurement in the study of food environment: we need better methods to solve the puzzle*. Journal of Epidemiology and Community Health

DOI:10.1136/jech-2014-205163 (2015)

Tran CH, Sugimoto JD, Pulliam JR, Ryan KA, Myers PD, Castleman JB, Doty R, Johnson J, Stringfellow J, Kovacevich N, **Brew J**, Cheung LL, Caron B, Lipori G, Harle CA, Alexander C, Yang Y, Longini IM Jr, Halloran ME, Morris JG, Small PA Jr. *School-Located Influenza Vaccination Reduces Community Risk for Influenza and Influenza-Like Illness Emergency Care Visits*. PLOS ONE

DOI: 10.1371/journal.pone.0114479 (2014)

Academic theses

Youth overweight in Denmark: prevalence, ethnicity and other risk factors. Kobenhavns Universitet (MPH dissertation) 2013

Estrés laboral en trabajadoras domésticas en Andalucía. Escuela Andaluza de Salud Pública 2012

La Presse comme arme politique: le rôle des journaux américains dans les négociations des accords de Paris. Institut Catholique de Paris (MA dissertation) 2009

Religion and Counterrevolution: Fundamentalist Evangelicalism and the Dictatorship of Efraín Ríos Montt. Sewanee: The University of the South (BA thesis) 2008

Non-academic

BCN Data: the numbers behind Europe's most vibrant city
www.bcndata.cat 2015 - ongoing

Control Flu Data Insights: Immunization, consent and vaccine hesitance
Florida Department of Health, Alachua County 2015

Community Health Improvement Plan: Evaluation Reports
Florida Department of Health, Alachua County (internal) 2014

Quantifying capacity at Health Posts in Tigray, Ethiopia
Tigray Regional Health Bureau (internal) 2013

Ciudad Quetzal: A Guatemalan City Grapples with Gang Terrorism
Tico Times, Costa Rica 2011

Heart of the sky, heart of the earth: religious division and its sociopolitical causes and consequences in San Juan Sacatepequez, Guatemala
Biehl Fellowship Paper 2007

Experience

Data scientist OAKLAND, CA, USA
Lendable January 2015 - present

- Work to expand access to financial products to the developing world (East Africa, India)
- Program machine learning algorithms to predict financial risk
- Develop and implement stochastic simulation methods
- Devise creative means for extracting and generating features in a low-data context
- Create internal and client-facing visualization tools

Analyst WASHINGTON, DC, USA
Analyst Institute April 2014 - April 2015

- Analyze voter data from controlled experiments
- Create tools for statistical analysis
- Design tools for data visualization

Surveillance Epidemiologist GAINESVILLE, FL, USA
Florida Department of Health, Alachua County July 2013 - December 2015

- Write programs to detect clusters/abnormalities for ER data stream

- Analyze mosquito trap data to prevent arbovirus transmission
- Coordinate flu surveillance operations through school system
- Oversee program evaluation, billing, revenue modeling activities

"Data Science for Social Good" Fellow

University of Chicago

CHICAGO, IL, USA

June 2014 - August 2014

- Analyzed large datasets to predict pediatric lead poisoning
- Worked in close collaboration with the Chicago Dept. of Public Health
- Used tools like R, Python and D3
- Worked closely with industry experts like Rayid Ghani and Ben Yuhas
- Designed tools for data exploration

Erasmus Mundus Researcher

Skolesundhed

COPENHAGEN, DENMARK

February 2012-June 2013

- Redesigned school health screening system to bring to digital platform
- Analyzed 3 years of youth health data on immigration and overweight

Health Systems Researcher

Agència de Salut Pública de Barcelona

BARCELONA, SPAIN

November 2012-February 2013

- Worked on SOPHIE project on immigration and health disparities

Maternal Health Epidemiologist

Tigray Regional Health Bureau

MEKELLE, ETHIOPIA

May 2012-August 2012

- Collected, analyzed and reported on data from rural regional Health Posts near the Eritrean border

Teacher

St. Andrew's-Sewanee School

SEWANEE, TN, USA

January 2010-June 2011

- Taught middle and high school Spanish and Technology

Assistant Coach

The University of the South

SEWANEE, TN, USA

August 2009-December 2010

- Coached men and women's cross country and track and field

Health Educator

Promotion et Développement Humain

AVEDJI CITÉ, TOGO

May 2009-August 2009

- Lead sexual health education workshops for teens
- Assessed medication adherence among HIV/AIDS patients through visits/interviews
- Assisted in accounting, data organization, process improvement

Recreation Coordinator / Teacher

Instituto Experimental de Ciudad Quetzal

CIUDAD QUETZAL, GUATEMALA

2006-2008 (summers)

- Organized youth recreation clinics for the *Cases Interculturales* program
- Taught English and Spanish in impoverished and violence-stricken area

Honors and Awards

Data Science for Social Good Fellowship Funded by the University of Chicago to spend 3 months tackling big problems with big data	2014
Erasmus Mundus Fellowship European Commission award for full MPH funding	2011
Highest honors ("mention très bien") on MA thesis <i>La Presse comme arme politique: le role des journaux américains dans les négociations des accords de Paris</i>	2009
Highest honors ("summa cum laude") and Phi Beta Kappa Top 5% of graduating class at Sewanee	2008
Linda Wheat Fellowship Full funding for graduate studies at the Institut Catholique de Paris	2008
Fulbright ETA (Andorra) Awarded, but I declined in order to pursue graduate studies	2008
Algernon Sydney Sullivan Award Granted to one graduate annually, Sewanee's "most prestigious prize"	2008
Joseph Cushman Scholarship Highest award given to History major at Sewanee	2007
Gessell Fellowship Funding to carry out research on African-American history at Sewanee	2007
Biehl Social Science Fellowship Full funding to investigate the religious roots of social division in Guatemala	2007
Lilly Grant Full funding for vocational institute and internship in Guatemala	2006
Wright-Bentley Scholarship For strong academic skills and service to the community	2005
Wilkins Scholarship Merit and community award	2004

Community Service

Translator

Physicians for Haiti

PORT-AU-PRINCE, HAITI

2010-present

- Translated medical education documents between French and English

Founder

Weekend English for Migrants

SEWANEE, TN, USA

2009-2011

- Organized language exchanges between high-schoolers and undocumented immigrants

Co-founder

ABRE

SEWANEE, TN, USA

2006-2008

- Co-founded and presided over social awareness organization

Personal

Happily married, father, likes to fix and ride bikes, enjoys travel, doesn't enjoy airplanes, loves running, hates sitting, morning person.