

JOE BREW

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CISM, Vila da Manhica, Bairro Cambeve, Rua 12

Distrito da Manhica, CP 1929, Maputo (Mozambique)

www.economicsofmalaria.com

Languages

Native: English

Fluent: Spanish, French, Catalan

Proficient: Portuguese

Expert: R, SAS, Stata, SQL

Professional: Python, SPSS, Ruby

Proficient: Javascript, HTML, CSS

Education

PhD: Economics (in progress)

Institut de Salut Global (host institution)

Vrije Universiteit (secondary institution)

Centro de Investigacao em Saude de Manhica (research site)

January 2016-

BARCELONA, SPAIN

AMSTERDAM, HOLLAND

MANHICA, MOZAMBIQUE

- Coursework in economics, epidemiology, evaluation and policy
- Research on the cost effectiveness and efficacy of malaria control and elimination interventions

Master of Public Health: Epidemiology

Kobenhavns Universitet (year 2)

Escuela Andaluza de Salud Pública (year 1)

September 2011 - July 2013

COPENHAGEN, DENMARK

GRANADA, SPAIN

- Coursework in epidemiology, economic evaluation, demography, advanced biostatistics, management, health policy, health promotion
- Research focus on immigration and youth health

Master of Arts: Diplomacy

Institut Catholique de Paris

September 2009-June 2010

PARIS, FRANCE

- Coursework in diplomacy, policy, political science and history
- MA in Contemporary Diplomatic History, with fieldwork on the secret diplomacy which ended the Vietnam War through the Paris Peace Accords

Bachelor of Arts: Liberal arts

Sewanee: The University of the South

August 2004-May 2008

SEWANEE, TN, USA

- Triple major in Contemporary Non-Western History, Spanish, French
- Research focus on civil war in Guatemala

Publications

Peer-reviewed papers

García-Basteiro A, Mambuque E, Hertog A, Saavedra B, Cuamba I, Oliveras L, Blanco S, Bulo H, **Brew J**, Cuevas L, Cobelens F, Nhabomba A, Anthony R. *IP-10 Kinetics in the First Week of Therapy are Strongly Associated with Bacteriological Confirmation of Tuberculosis Diagnosis in HIV-Infected Patients*. Nature: Scientific Reports
DOI: 10.1038/s41598-017-13785-3 (2017)

García-Basteiro A, Miranda R, **Brew J**, Sacoer C, Valencia S, Bulo H, Cobelens F, Macete E. Tuberculosis on the rise in southern Mozambique (19972012). European Respiratory Journal
DOI: 10.1183/13993003.01683-2016 (2017)

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
DOI: 10.1016/j.vaccine.2016.04.017 (2016)

Lednicky 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, 201415*. 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**, Lednicky 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 C, Sugimoto J, Pulliam J, Ryan K, Myers P, Castleman J, Doty R, Johnson J, Stringfellow J, Kovacevich N, **Brew J**, Cheung L, Caron B, Lipori G, Harle C, Alexander C, Yang Y, Longini I, Halloran M, Morris JG, Small P. *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)

Conference presentations

Cirera L, **Brew J**, Valls J, Sicuri E. *Impact of a malaria elimination initiative on school outcomes in Southern Mozambique* American Society of Tropical Medicine Hygiene

Baltimore, USA (2017)

Brew J, Gondo K, Dorkin E, Thomas R, Sicuri E. *Effectiveness of private sector malaria control: the case of sugarcane workers in Southern Mozambique* Malaria transmission: current challenges and new tools in the elimination context
Lisbon, Portugal (2017)

Brew J, Broerse J, Pradhan M, Sicuri E. *Silent pessimists: researchers' perceptions of malaria eradication and implications for health spending* European Conference of Tropical Medicine and International Health
Antwerp, Belgium (2017)

Brew J, Cirera L, Thomas R, Sicuri E. *Short-term effectiveness of a malaria elimination campaign in Southern Mozambique* European Conference of Tropical Medicine and International Health
Antwerp, Belgium (2017)

Cirera L, **Brew J**, Vall J., Sicuri E. *The educational impact of a malaria elimination campaign* Revolutions in the Economics of Health Systems: Congress of the International Health Economics Association
Boston, USA (2017)

Brew J, Cirera L, Sicuri E. *The economic benefits of a malaria elimination campaign in Southern Mozambique*. African Health Economics Association Conference: The sustainable development goals, the grand convergence, and health in Africa.
Rabat, Morocco (2016)

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 papers and projects

DATABREW: empowering researchers in academia and industry to explore, understand, and communicate their data through teaching and consulting (company)
www.databrew.cc 2017 - ongoing

BCN Data: the numbers behind Europe's most vibrant city (website)

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

Co-founder, consultant, instructor

DATABREW

TORONTO, CANADA

January 2017 - present

- Co-founded company which provides statistical consulting and educational services to institutions in industry and academia

Economist

Centro de Investigação em Saude de Manhica

MANHIÇA, MOZAMBIQUE

November 2016 - present

- Field research on economics and malaria
- Supervise and organize data collection teams
- Capacity-building and course instruction on data visualization and statistical software

Consultant

World Bank

WASHINGTON, DC, USA

May 2016 - present

- Design and create researcher tools for large-scale surveys carried out by the World Bank Trade Competitiveness Global Practice
- Build interactive web app for data exploration

Data scientist

Lendable

OAKLAND, CA, USA

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

Surveillance Epidemiologist

Florida Department of Health, Alachua County

GAINESVILLE, FL, USA

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

Analyst

Analyst Institute

WASHINGTON, DC, USA

April 2014 - April 2015

- Analyzed voter data from controlled experiments
- Created tools for statistical analysis
- Designed interactive dashboards for data visualization

"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

Transdisciplinary Global Health Fellowship Funded by the European Commission to carry out research on economics and malaria	2015
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

PORT-AU-PRINCE, HAITI

Physicians for Haiti

2010-present

- Translated medical education documents between French and English

Founder

SEWANEE, TN, USA

Weekend English for Migrants

2009-2011

- Organized language exchanges between high-schoolers and undocumented immigrants

Co-founder

SEWANEE, TN, USA

ABRE

2006-2008

- Co-founded and presided over social awareness and social justice organization

Personal

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