

# Corinne Bintz

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## EDUCATION

### Middlebury College

**GPA:** 3.96/4.0; *Bachelor of Arts*, Computer Science; minor in Global Health

**Related Coursework:** *Computer Science:* Machine Learning, Information Visualization, Data Science, *Economics:* Health Policy and Economics, Economic Statistics *Global Health:* Global Health, Medical Anthropology, Social Entrepreneurship and Global Health

Middlebury, VT

Feb 2017-Feb 2021

### Study Abroad: DIS Stockholm

Stockholm, Sweden

**GPA:** 4.0/4.0; *Public Health Coursework:* Public Health and Migration, Epidemiology, Public Health Policy in Practice Jan-May 2019

## RELATED WORK EXPERIENCE

### Harvard Medical School Summer Institute in Biomedical Informatics

Cambridge, MA

*Research Fellow*

June 2020-Present

- Investigating the relationship between health spending and rates of multidrug resistant tuberculosis over time
- Developed data visualizations and machine learning pipelines for tuberculosis genomic data on the Farhat Lab's web tool

### Andean Alliance for Sustainable Development

Calca, Cusco, Peru

*Community Development Intern*

January 2020

- Investigating perceptions and realities of indigenous women's contribution to community development in the Sacred Valley

### Porter Medical Center

Middlebury, VT

*Student Consultant*

Sep-Dec 2019

- Determined opioid dependence interventions in Addison County through a community-connected academic project

### University of Washington eScience Institute Data Science for Social Good Program

Seattle, WA

*Student Fellow: Algorithmic Equity Toolkit Project*

June-Aug 2019

- Developed a toolkit in partnership with the American Civil Liberties Union to audit automated decision-making technologies

### Green Mountain Care Board: Health Resource Allocation Plan

Middlebury, VT

*Student Consultant*

Sep-Dec 2018

- Researched maternal and child health needs and resources through a community-connected academic project

### DIS Stockholm Research Project: HIV and Assisted Reproductive Technology Access

Stockholm, Sweden

*Research Assistant for Dr. Rachel Irwin*

Jan-May 2019

- Created and administered a survey regarding clinics' policies regarding providing services to people living with HIV

## ACTIVITIES, LEADERSHIP & AWARDS

Middlebury Global Health Program Student Advisory Committee, AnitaB Grace Hopper Celebration 2018 scholarship recipient and attendee, WECode 2018 attendee, Women in Computer Science: *Secretary*, Middlebury Women's Water Polo, Middlebury College Scholar, MiddVolunteers: *Treasurer*, MiddView Orientation Wilderness Leader, Middlebury February Orientation Leader

## TECHNICAL HEALTH-RELATED RESEARCH PROJECTS

**Vermont Health Disparities:** Interactive Vermont maps showing maternal and child health needs and resource gaps

**Maternal Mortality in the United States:** Narrative visualization displaying racial disparities in maternal and infant mortality

**A Sequence for Survival:** Clustered to select a subset of genes and trained a neural network to predict survival of lung cancer

**Health and Income:** Interactive graphs showing the relationship between health outcomes, access to care, insurance, and income

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C#, MATLAB, JavaScript, R, MySQL, C, Stata

**Other:** PyTorch, SciPy, NumPy, scikit-learn, R Shiny, D3.js, Git, pandas, Dash, Agile Software Development, Tableau, Django

## PUBLICATIONS & CONFERENCE PRESENTATIONS

- Katell, M., Young, M., Herman, B., & Dailey, D., **Bintz, C.**, Guetler, V., Raz, D., & Tam, A, "Towards Situated Interventions for Fairness, Accountability, and Transparency: Lessons from the Field" Paper presented at 2020 ACM Conference on Fairness, Accountability, and Transparency; 2020 Jan 27-30; Barcelona, Spain
- Katell, M., Young, M., Herman, B., & Dailey, D., **Bintz, C.**, Guetler, V., Raz, D., & Tam, A, "A Toolkit for Algorithmic Equity and Community Empowerment" Poster presented at iConference – Sustainable Digital Communities; 2020 Mar 23-26; Borås, Sweden