**Joseph Chase**

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**Education**

***University of Wisconsin - Milwaukee***

*Ph.D. in Biomedical and Health Informatics (Estimated: 2025)*

*Master of Public Health (MPH) in Biostatistics 2017*

*Capstone: Opioid use as a function of geographic factors within the National Survey on Drug Use and Health (NSDUH)*

***University of Wisconsin - Madison***

*Bachelor of Science (BS) 2014*

**Positions and Experience**

**Advocate Aurora Health**

Senior Research Biostatistician **August 2023 to Current**

* Advocate Aurora Research Institute
* Statistical analysis and support for institutional research
* Statistical analysis and support for the Center for Urban Population Health

**Astellas**

Senior Data Science Manager **Nov 2022 to July 2023**

* Methodological evaluation
* Analysis of large claims datasets

**United States Department of Veterans Affairs**

Research Scientist **Jun 2022 to Current**

* C-DACS, Million Veterans program
* Million Veterans Project (MVP)
* Genhub / Genomic Information System for Integrative Science (GENISIS)

**UWM --- Zilber School of Public Health**

Graduate Research Assistant **Aug 2018 to Jun 2022**

* Simulating data
* Predictive modeling and evaluation
* Causal inference

*MCW-UWM Bioinformatics Fellow* ***Sep 2016 to Jan 2017***

* Processing genomic data, AWS

*Bioinformatics Analyst* ***Jan 2016 August 2017***

* Pipeline work (Linux/Bash), fastQC, STAR, ht-count)

**Gainsystems --- Sep 2021 to Jun 2022**

Data Science Research Fellow

* Preprocessing of customer data
* Simulation of inventory data

**Amgen --- Jan 2020 to Dec 2020**

Graduate Student Coop - Patient Support Services Analytics

* Analysis and modeling of claims, EHR, and business data (databricks, GitLab)
* Claims data with approximately 100 million records, EHR data with 70 million records

**AbbVie**

*Engineer (III)* ***Aug 2018 to Jan 2019***

*RCM* *Support Engineer / Project Manager / Research Analyst* **Jun 2017 to Aug 2018**

*Data Science Intern (Operations)* ***Jun 2016 to Aug 2016***

* Operations development program
* Remote data science projects with manufacturing data (FMEA, RCM)
* Statistical analysis for reliability-centered manufacturing, spare parts inventory management (SAP)
* Quality systems optimization, designed scripts for metric reporting, managed various metrics
* Modeling pharmacy data to aid business practices

**The University of Wisconsin - School of Medicine and Public Health**

*Research Analyst (Dept. of Family Medicine)* ***Aug 2013 to May 2014,*** ***Aug 2015 Dec 2015***

* Statistical analysis and figures for publication, Remote data analysis for a large RCT

*Research Specialist (Dept. of Family Medicine)* ***May 2014 to Aug 2015***

* Latent class analysis, regression modeling for descriptive analysis
* Coordinating a clinical trial

*Research Assistant (Center for Tobacco Research and Intervention)* ***Aug 2012 to Aug 2013***

* A small clinical trial, interim data analysis

*Research Assistant (Dept. of Genetics)* ***Aug 2011 to Aug 2012***

* Laboratory work and some sequence analysis

*Research Assistant (Wisconsin Geological & Natural History Survey)* ***Aug 2010 to Aug 2011***

* Processing soil samples from ground well drilling

*Research Assistant (Dept. of Family Medicine)* ***Feb 2010 to Aug 2010***

* Helping with survey responses and processing

**Certifications**

American Statistical Association - GStat (Graduate Statistician)

UW-Madison - Environmental Studies, SIBS (Biostatistics Training)

Rockefeller University - Advanced Gene Mapping

**Skills**

Predictive modeling, descriptive modeling, inference, sampling, experimental design, forecasting, machine learning

Languages: R, Python, Java, SQL, Linux/Bash, C/C++

**Publications**

Maxwell, L., Barrett, B., **Chase, J.**, Brown, R., Ewers, T. [Self-Reported Mental Health Predicts Acute Respiratory Infection](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4530798/). Wisconsin Medical Journal. June 2015.

Kiefer, D., **Chase, J.**, Love, G., Barrett, B. [The Overlap of Dietary Supplement and Pharmaceutical Use in the MIDUS National Study](https://www.ncbi.nlm.nih.gov/pubmed/24834100). Evidence-Based Complementary and Alternative Medicine. Volume April (2014), Article ID 823853

Barrett, Bruce, D. Muller, S. Hayer, T. Ewers, **J. Chase**, and R. Brown. "[Feeling loved, a novel self-report health measure: convergent and discriminant validity](https://www.ncbi.nlm.nih.gov/pubmed/30166237)." European Health Psychologist 18, no. S (2016): 1043.

**Presentations, poster**

Poster: **Chase, J.**, Schemmel, A., Barlow, S., Barrett, B., Temte, J. Comparison of Nasal Wash and Nasal Wash and Mid Turbinate Swabs for Multiplex-PCR Respiratory Virus Detection. Council of State and Territorial Epidemiologists, Boston, MA, June 2015

**Fellowships, Honors, Awards**

Academic Excellence Scholar Sep. 2009 - Spring 2013

Brady Service Co Scholarship Sep. 2009

CGSA Medical Informatics Scholarship Sep. 2018 - Sep. 2019

**Professional organizations**

American Statistical Association (ASA)