

Bailey Wellen Osweiler

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Education

Washington University McKelvey School of Engineering - St. Louis, MO 2023 - Present

- Ph.D. in Computational and Data Sciences

Carthage College - Kenosha, WI 2017 - 2021

- B.A. Data Science, B.A. Computer Science
- Minors in Mathematics and Spanish
- Summa Cum Laude

Research Experience

Washington University School of Medicine, Kannampallil Lab – St. Louis, MO 2024 - Present

Research Assistant - Measurement of Clinician Workload using Electronic Health Record Audit Logs

Washington University Brown School, Marotta Lab – St. Louis, MO 2023 - Present

Research Assistant - Opioid Use Disorder Policy Evaluation

Washington University Brown School, Ramsey Lab – St. Louis, MO 2024 - 2025

Research Assistant - Refinement & Evaluation of Therapeutic Digital Technologies

Carthage College Senior Capstone – Kenosha, WI 2020 - 2021

Independent Researcher

Correlation One – Remote

Data Science Fellow, Environmental Changes during COVID-19 Researcher 2020

Carthage College Psychology Lab – Kenosha, WI

Saccadic Eye Movement Researcher 2018

Professional Experience

Washington University in St. Louis - St. Louis, MO 2026 - Present

Center for Teaching and Learning - Educational Development Graduate Fellow

Deloitte – Chicago, IL

Brand & Reputation Risk Consultant 2023

Brand & Reputation Risk Analyst 2021 – 2023

Cyber Risk Intern 2020

AbbVie – North Chicago, IL

Data Management Contractor

2019 – 2021

Data Management Experiential Intern

2019

Carthage College – Kenosha, WI

Mentor Tutor

2020 – 2021

Computer Science Tutor

2018 – 2020

Publications

Oswelier BW, Lew D, Lv N, Ma J, Kannampallil TG (2025) Depression and weight loss trajectories during an integrated behavioral intervention: Within-treatment analysis of the RAINBOW trial. PLoS One 20(12): e0328715.

December 2025

<https://doi.org/10.1371/journal.pone.0328715>

Oswelier BW, Rammaha T, Szlyk HS, et al. Co-designing a mobile application to reduce self-stigma for people with opioid use disorder during pregnancy and the postpartum period. Front Psychiatry. 2025;16. doi:10.3389/fpsyt.2025.1607652

August 2025

Oswelier, BW, Hutson, WD, Marotta, PL. Insurance-related Risk Factors for Leaving Against Medical Advice after Opioid Overdose: A Cross-sectional Study Using Electronic Health Records. Journal of Addiction Medicine, June 23, 2025. | DOI: 10.1097/ADM.0000000000001521

June 2025

LR Baratta, J Wang, **BW Oswelier**, D Lew, E Eiden, TG Kannampallil, SS Lou. (2026) Algorithmic Identification of the Daily Primary Frontline Clinician during Inpatient Medicine Encounters Using EHR Audit Log Data. Appl Clin Inform. 2026;17(03):540-548. doi: 10.1055/a-2903-0478.

June 2026

Oswelier BW, Baratta LR, Eiden E, Lou SS, Kannampallil TG, Lew D. "Trajectories of electronic health record-based workload among inpatient hospitalizations: a retrospective cohort study" [under review]

TBD

Oswelier BW, Baratta LR, Lew D, Lou SS, Kannampallil TG, Wu J. "Using Multimodal Digital Traces to Characterize Healthcare Team Communication Behaviors" [under review]

TBD

Williams, J., **Oswelier, B.W.**, Siriprakorn, J.P., Marotta, P.L. "Disability, Chronic Pain, and Opioid Use Disorder Treatment Disparities: A National Cohort Analysis from the All of Us Research Program." [under review; preprint]

TBD

<https://www.medrxiv.org/content/10.64898/2026.08.09.26359632v1>

Baratta LR, **Oswelier B**, Wang J, Lew D, Eiden E, Kannampallil TB, Lou SS. "Association between physician secure messaging use and patient length of stay: a cohort study" [in progress]

TBD

Oswelier BW, Tamakloe MD, Eshun J, Marotta P. "Associations of State-level Substance Use Prevalence with Treatment Center Counts by Profit Type and OTP status, 2015-24" [in progress; preprint]

TBD

https://papers.ssrn.com/sol3/papers.cfm?abstract_id=5064647

Oswailer BW, Cheng C, Zhang L, Marotta P. "Assessing the causal influences of medications for opioid use disorder on treatment completion and retention in the 2023 TEDS-D dataset" [in progress] *TBD*

Marotta PL, **Oswailer BW**, Humphries D, et al. "Attitudes toward harm reduction and buprenorphine prescribing among rural primary care providers in the U.S Midwest and South" [in progress] *TBD*

Presentations

Williams, J., **Oswailer, B.W.**, Siriprakorn, J.P., Marotta, P.L. "All of Us, Not All the Same: Disability and Pain in Opioid Use Disorder (OUD) Treatment and Recovery" [Conference session]. 2026 College on Problems of Drug Dependence, Portland, OR. *June 2026*

Wang J, Eiden E, Baratta L, Xia L, **Oswailer BW**, Kannampallil T, Lou S, Lew D. "EHR Secure Messaging Before and After Wrong-Patient Order Errors" [Poster Session], Amplify Informatics Conference, Denver, CO *May 2026*

Oswailer, B, Rammaha, T, Szlyk, H, Dell, N, Macon, J, Jacobson. N, Burley, C, Goodman, M, Cavazos, P, Ramsey, A, "Engage, Entrust, Enhearten: The Iterative Co-Design and Test of a Digital Ecological Momentary Intervention to Reduce Perinatal Self-Stigma Involving Opioid Use Disorder" [Poster Session], College of Problems on Drug Dependence, New Orleans, LA *June 2025*

Oswailer B, Baratta L, Eiden E, Kannampallil T, Lou S, Lew D, "Identifying trajectories of clinician engagement with the EHR among inpatient hospitalizations", [Oral Presentation] American Medical Informatics Association - Clinical Informatics Conference, Anaheim, CA *May 2025*

Oswailer B, Baratta L, Eiden E, Kannampallil T, Lou S, Lew D, "Trajectories of clinician EHR time during inpatient hospitalization" [Poster Session], I2DB Symposium, St. Louis, MO *February 2025*

Lynch Z, Humphries D, Rashid M, Akinloye B, Orogade A, Narayanan N, Baied M, **Oswailer B**, Wang K, Heimer R, Marotta P, "Strategies for increasing acceptability of harm reduction practices in rural Missouri" [Oral Presentation], American Public Health Association, Minneapolis, MN *October 2024*

Oswailer B, Hutson W, Marotta P, "Insurance risk factors for leaving against medical advice after opioid overdose: a retrospective cohort study using electronic health records" [Poster Session], Addiction Health Services Research Conference, San Francisco, CA *October 2024*

Oswailer B, Hutson W, Marotta P, "Patients hospitalized for repeat opioid overdoses: an exploratory analysis of demographics and barriers to treatment" [Poster Session], Institute of Clinical and Translational Science Big Data Research Symposium, St. Louis, MO *September 2024*

Oswailer B, Baied M, Narayanan N, Lynch Z, Backes K, Wang K, Humphries D, Heimer R, Marotta P, "Primary Care Buprenorphine Provision in the U.S. South and Midwest: Prescribing Changes Post-Data Waiver Elimination" [Poster Session], College of *June 2024*

Problems on Drug Dependence, Montreal, Canada

Oswelier B, McBride T, "State Treatment Center Counts as a Market Response to Substance Use Prevalence: Investigating Differences by Profit Status", [Poster Session], STL DataFest, St. Louis, MO May 2024

Funding and Honors

NIDA F31 Predoctoral Individual National Research Service Award Awarded - 2026

NIDA T32 Transdisciplinary Training in Addiction Research Grant 2023 - Present

CPDD NIDA Women & Sex/Gender Junior Investigator Travel Award June 2025

Featured on the Carthage College [Data Science Alumni Spotlight](#) 2022

Distinguished Senior in Data Science - recognized for contribution to data science program and outstanding academic performance 2021

Student Ambassador for Data Science & Computer Science Departments 2020 - 2021

Smeds Executive Scholarship - granted for displayed leadership and ambition through internships 2020 - 2021

Carl Wilbur Nelson Scholarship - awarded for viola ensemble performances 2020 - 2021

Presidential Scholarship - awarded for academic merit 2017 - 2021

Professional Memberships

American Medical Informatics Association 2024 - Present
Student Member

American Society of Addiction Medicine 2024 - Present
Student Member

College of Problems on Drug Dependence 2023 - Present
Member-in-Training

Community and Academic Service

Pacific Symposium on Biocomputing 2026
Peer Reviewer

American Journal of Medicine Open 2026
Peer Reviewer

SIGCSE Technical Symposium - St. Louis, MO 2026
Conference Student Volunteer

BMJ Mental Health Peer Reviewer	2025
AMIA Clinical Informatics Conference - Anaheim, CA Conference Student Volunteer	2025
Haymarket Center – Chicago, IL Associate Board Member	2022 - 2023
Carthage College Data Science Club – Kenosha, WI Founder and President	2019 - 2020
<u>Tutoring and Teaching Assistant Experience</u>	
Data Science for Complex Networks - Washington University in St. Louis	2026
Signals, Data, and Equity - Washington University in St. Louis	2024, 2026
Introduction to Computing - Carthage College	2020, 2021
Principles of Computer Science I - Carthage College	2018, 2020
Principles of Computer Science II - Carthage College	2021
<u>Professional Certifications</u>	
GCP Professional Cloud Architect (expired)	2023
GCP Associate Cloud Engineer (expired)	2021
AWS Certified Cloud Practitioner (expired)	2021
Microsoft Office Specialist – Excel	2021
Tableau Desktop Specialist	2020