

Katherine Zellner

College of Computing and Informatics
Drexel University | 3675 Market Street
Philadelphia, PA 19104

Curriculum Vitae

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EDUCATION

Drexel University, College of Computing and Informatics, Philadelphia, PA

PhD, Expected Fall 2025

Advisor: Aleksandra Sarcevic

Concentration in Human Computer Interaction

Johns Hopkins University, Bloomberg School of Public Health, Baltimore, MD

MPH, May 2020

Customized Concentration in Biostatistical Methods for Public Health

The University of Chicago, Chicago, IL

BA, June 2017

Major in the Biological Sciences, specialization in Global Health

Minor in English and Creative Writing

PROFESSIONAL APPOINTMENTS

Drexel University, College of Computing and Informatics, Philadelphia, PA

Doctoral Research Assistant, September 2020-Present

Howard County Department of Health, ,MD

Epidemiologist II, June 2020 - July 2021

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

Research Assistant, July 2019-June 2020

Cerner Corporation, Kansas City, MO

Delivery Consultant, April 2018 - June 2019s

Academy Consultant, August 2017-April 2018

Malamy Laboratory, University of Chicago, Chicago, IL & Woods Hole, MA

Student Research Technician, January 2016-June 2017

TEACHING

Drexel University, College of Computing and Informatics, Philadelphia, PA
Teaching Assistant, September 2020- December 2020

Introduction to Design

Biological Sciences Collegiate Division, University of Chicago, Chicago, IL
Teaching Assistant, September 2016- June 2017

- Lead laboratory sessions for introductory level biology classes including Cellular and Molecular Biology, Genetics, and Developmental Biology, teaching students basic laboratory skills.

PUBLICATIONS

Zellner, K., Villegas, L. J., Neff, C., Gestrich-Thompson, W., Burd, R. S., Marsic, I., and Sarcevic, A., "An analysis of speech during life-saving interventions to inform the design of a computerized system for delay detection," to appear in *Proceedings of the American Medical Informatics Association 2022 Annual Symposium (AMIA 2022)*, pp. TBA, November 5-9, 2022, Washington DC.

Swathi Jagannath, Neha Kamireddi, **Katherine Ann Zellner**, Randall S. Burd, Ivan Marsic, and Aleksandra Sarcevic. 2022. A Speech-Based Model for Tracking the Progression of Activities in Extreme Action Teamwork. *Proc. ACM Hum.-Comput. Interact* 6, CSCW21, Article 73 (April 2022),. DOI:<https://doi.org/10.1145/3512920>

Katherine Ann Zellner, Matt Coates, Alex Lee, Swathi Jagannath, Aleksandra Sarcevic, Emily C. Alberto, Allison Harvey, Randall S. Burd, and Ivan Marsic. 2021. Characterizing Speech in Life Saving Interventions to Inform Computerized Clinical Decision Support for Complex Medical Teamwork. *In Companion Publication of the 2021 Conference on Computer Supported Cooperative Work and Social Computing CSCW '21*. Association for Computing Machinery, New York, NY, USA, 199–202. DOI:<https://doi.org/10.1145/3462204.3481746>

Paulani Mui, Beth Resnick, Aruna Chadran, George Zhange, and **Katherine Zellner**. 2020. Examination of Health and Public Health Service Delivery in Delaware County, Pennsylvania. *Delaware County Council*. Media, PA, USA.

Zellner, Katie et al. "In vivo imaging of epithelial wound healing in the cnidarian *Clytia hemisphaerica* demonstrates early evolution of purse string and cell crawling closure mechanisms." *BMC Developmental Biology*, vol. 17, no. 17, 2017.

PRESENTATIONS

Shah, V., **Zellner, K.**, Sarcevic, A., "An alerting system for supporting delay awareness in emergency medicine," poster presentation at the *2022 STAR Scholars Summer Showcase*, Drexel University, Philadelphia, PA, August 25, 2022.

Zellner, K., Sarcevic, A., Dixon, R., Sullivan, T., “A human centered design approach to prototyping a system to support delay awareness in trauma resuscitation,” poster presentation at the *2022 CRA-WP Grad Cohort for Women*, New Orleans, LA, April 21-23, 2022.

"Understanding Speech Patterns During Delays in Life Saving Interventions" Philadelphia, PA 2021 Presented and was one of two winners at the Drexel College for Computing & Informatics Doctoral Student Association Research Symposium.

"Wound Healing in Jellyfish" CHICAGO, IL, 2016 Presented at the Undergraduate Research Symposium for the Midstates Consortium for Math and Science,

MENTORSHIP

Undergraduate Research Mentorship

Vidhi Shah (STAR Scholar), User Experience and Interaction Design, Drexel University, Summer 2022

Ryan Dixon (Research Co-Op), Computer Science, Drexel University, Fall 2021 – Spring 2022

Subhi Karthikeyan, Biological Sciences, Drexel University, Winter 2021 – Winter 2022

Caraline Young, Chemistry, Drexel University, Winter 2021 – Winter 2022

Saundra Godshall, Biological Sciences, Drexel University, Winter 2021 – Summer 2021

Medical Student Research Mentorship

Maya Amy, Drexel University College of Medicine, Spring 2022 - present

Un Bi (Diana) Kim, Drexel University College of Medicine, Winter 2022 - present

Maja Barnouw, Drexel University College of Medicine, Winter 2022 - present

Megan Krentsa, Drexel University College of Medicine (Scholars Program Track: Medical Education), Winter 2022 - present

Charles Neff, Drexel University College of Medicine (Medical Student Summer Research Fellowship), Summer 2021 – Spring 2022

Louis Jiorgio Carana Villegas, Drexel University College of Medicine, Summer 2021 – Spring 2022

Caraline Young, Drexel University College of Medicine, Spring 2021 – Spring 2022

Alex Lee, Drexel University College of Medicine (Medical Student Summer Research Fellowship),
Winter 2021 – Fall 2021

SERVICE

INVITED TALKS

ACADEMIC HONORS, AWARDS AND SCHOLARSHIPS

Provost's Award for Best In-Person Oral Research Presentation at the Drexel Emerging Graduate Scholars (DEGS 2022) Conference for the poster "A human centered design approach to prototyping an alerting system for supporting delay awareness in emergency medical settings"

2022 Drexel University Graduate College Outstanding Mentorship Award