

Chase M. Fensore

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EDUCATION

Graduate Study, Computer Science & Informatics 2022 – Present
Emory University, Atlanta, GA
Research Advisor: Dr. Joyce C. Ho

B.S. Computer Science & Engineering 2018 – 2022
The Ohio State University, Columbus, OH **GPA: 3.66/4.00**

Research Advisors: Dr. Heather C. Allen, Dr. Xia Ning

- *Honors Thesis*: “Analysis of Raman spectra with a machine learning approach for improved quantification of Microcystin-LR.”
- Scholars Distinction in Entrepreneurship and Innovation

RESEARCH EXPERIENCE

Graduate Research Assistant May 2023 – Present
Emory University, Department of Computer Science Atlanta, GA
PI: Prof. Joyce C. Ho

Graduate Research Assistant August 2022 – August 2023
Emory University, Department of Biomedical Informatics, Computer Science Atlanta, GA
PI: Prof. Rishi Kamaleswaran

Research Assistant February 2020 – May 2022
Ohio State University, Department of Chemistry and Biochemistry Columbus, OH

INDUSTRY EXPERIENCE

Software Engineer Intern June 2021 – August 2021
J.P. Morgan Chase & Co. Columbus, OH

Co-Founder, Advisor April 2022 – Present
Zuki (*Previously Pelorus Health*)

Software Developer Intern May 2019 – August 2019
Plug and Play Tech Center Sunnyvale, CA

TEACHING EXPERIENCE

Grader, Introduction to Java August 2021 – Spring 2022
Ohio State University, College of Engineering Columbus, OH

Graduate Teaching Assistant
Emory University, Department of Computer Science Atlanta, GA

- Introduction to CS (Fall 2022), Introduction to Machine Learning (Graduate, Fall 2023), Introduction to Machine Learning (Undergraduate, Spring 2024)

INVOLVEMENT

Volunteer March 2020 – May 2020
Curbside Concerts – Can't Stop Columbus (Remote) Columbus, OH

Treasurer, OpenBMI January 2023 – Present
Department of Biomedical Informatics, Emory University Atlanta, GA

Co-Founder, Director September 2018 – February 2020
LaunchpadOSU, Ohio State University Columbus, OH

HONORS AND AWARDS

Honorable Mention, Graduate Research Fellowship Program (GRFP) April 2024
U.S. National Science Foundation (NSF)

Undergraduate Research Scholarship July 2021
Ohio State University, College of Engineering

Safe and Healthy Campus Innovation Challenge September 2020
Ohio State University, College of Nursing

PUBLICATIONS

JOURNAL PAPERS

Functional group identification for FTIR spectra using image-based machine learning models; Enders, A., North, N., **Fensore, C.**, Velez-Alvarez, J., Allen, H. *Analytical Chemistry*. DOI: 10.1021/acs.analchem.1c00867; (2021).

CONFERENCE ABSTRACTS

Social determinants improve prediction of 30-day readmission in Black and White patients hospitalized for heart failure; **Fensore, C.**, Morris, A., Patel, S., Carrillo-Larco, R., Ho. *J Am Coll Cardiol*. DOI: [https://doi.org/10.1016/S0735-1097\(24\)02679-2](https://doi.org/10.1016/S0735-1097(24)02679-2); (2024).

Energy demand and cholesterol catabolism intensify at least 1 day before ARDS following post-surgery ICU admission; Kobara, S., Yang, C., **Fensore, C.**, Gaur, H., Natarajan, K., Davis, CM., Ghneim, K., Felipe ten, C., Pelletier, NP., Sharma, AA., Enriquez, AB., Lisboa, FA., Gann, E., Schobel, SA., Tallowin, S., Chen, C., Maner-Smith, K., Dente, CJ., Ortlund, EA., Sekaly, RP., Elster, EA., Buchman, TG., Kamaleswaran, R. *Ann Am Thorac Soc*. Abstract Accepted. (2024).

An Elevated Beta Oxidation and Tryptophan Degradation Proceed Post-operative ARDS in Surgical ICU Patients with Successful Liberation from Ventilation; Yang, C., Kobara, S., **Fensore, C.**, Gaur, H., Natarajan, K., Davis, CM., Ghneim, K., Felipe ten, C., Pelletier, NP., Sharma, AA., Enriquez, AB., Lisboa, FA., Gann, E., Schobel, SA., Tallowin, S., Chen, C., Maner-Smith, K., Dente, CJ., Ortlund, EA., Sekaly, RP., Elster, EA., Buchman, TG., Kamaleswaran, R. *Ann Am Thorac Soc*. (2024).

Altered sphingolipid biosynthesis during ARDS was associated with physical impairment at hospital discharge in surgical ICU patients. Kobara, S., Yang, C., **Fensore, C.**, Gaur, H., Natarajan, K., Davis, CM., Ghneim, K., Felipe ten, C., Pelletier, NP., Sharma, AA., Enriquez, AB., Lisboa, FA., Gann, E., Schobel, SA., Tallowin, S., Chen, C., Maner-Smith, K., Dente, CJ., Ortlund, EA., Sekaly, RP., Elster, EA., Buchman, TG., Kamaleswaran, R. *SHOCK Conf*. (2024).

MANUSCRIPTS

Machine learning with volatile organic compounds (VOCs): a systematic review of clinical applications. **Fensore, C.**, Yang, C., Kamaleswaran, R., *In Manuscript* (2024).