Kemal **Eren**

Computer Vision · Bioinformatics · Statistical Modeling
Cleveland, OH
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Experience

Senior Computer Vision Engineer — Branford, CT

Ancera — 2023 - Present

- Computer vision models for pathogen detection in the poultry supply chain
- Sequencing and statistical models for deep serotyping of *Salmonella enterica*

Senior Machine Learning Engineer — Pittsburgh, PA

Bossa Nova Robotics — 2022 - 2023

- Computer vision models for retail robotics and product recognition

Deep Learning Engineer — Pittsburgh, PA

UPMC — 2018 - 2021

- Deep learning and causal models for predicting medical outcomes

Machine Learning Research Engineer — Pittsburgh, PA

Qeexo — 2017 - 2018

- Machine learning-based solutions for mobile devices and embedded platforms

Software Engineer

scikit-learn — 2013

- Implemented high-performance biclustering algorithms: Spectral Coclustering and Spectral Biclustering
- Implemented biclustering scoring metrics
- Funded by the Google Summer of Code

Computer Vision Engineer — Heidelberg University, Germany

Heidelberg Collaboratory for Image Processing — 2012-2013

- Developed object classification for the ilastik interactive learning and segmentation toolkit

Skills

Languages Python, Julia, R, Stan, SQL, C

Education

University of California, San Diego — San Diego, CA

Ph. D. in Bioinformatics and Systems Biology — 2013 - 2017

- Advisers: Benjamin Murrell, Joel Wertheim, Sergei L Kosakovsky Pond
- Statistical and computational models for viral sequence analysis

The Ohio State University — Columbus, OH

M.S. in Computer Science — 2009 - 2012

- Adviser: Umit V. Catalyurek
- Developed BiBench, a framework for validation of biclustering algorithms on simulated and real microarray datasets
- Studied and updated the Correlated Patterns Biclustering (CPB) algorithm
- Developed algorithms for sequence mapping using the Burrows Wheeler Transform on GPUs

University of Michigan — Ann Arbor, MI

B.S. in Biology — 2004 - 2009