BEN COLEMAN

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RESEARCH INTERESTS

As a future physician-scientist, I am interested in applying advancements in artificial intelligence (AI) to clinical psychiatry. I intend to do this by elucidating clinically relevant patterns in patient genetics, medical records, and media interaction. Such data can be used to assist physicians in task prioritization, screening, and medication choice. Additionally, I am interested in the interface of psychiatrists and computational tools which is necessary for the successful integration of AI into clinical practice.

EDUCATION

Cedarville University, Cedarville, OH   May 2018
B.S. in Physics
GPA: 3.72

University of Connecticut   2026
M.D. and Ph.D. in Biomedical Sciences

AWARDS

ERN Conference in STEM Travel Award	2017
Sweetser Foundation Scholarship	2014 – 2018
Gallagher, Lewis P. Grant	2015 – 2018

RELEVANT EXPERIENCE

The Jackson Laboratory for Genomic Medicine   2020 - present
Graduate Student
I am a graduate student in the Robinson Lab working on projects related to natural language processing and extending the Human Phenotype Ontology to include more robust terms for psychological phenotypes.

Center for Nanobiology and Structural Biology, Nové Hrady, Czech Republic   Summer of 2017
Research Intern
Studied molecular interactions in Photosystem II through quantum mechanical and molecular mechanical simulations.

Princeton University, Princeton, NJ   Summer of 2016
Research Intern
Studied the correlation of shape determinant proteins and cell wall gaussian curvature in Helicobacter *pylori* and improved the efficiency of a 2D to 3D cell modeling pipeline by developing an image recognition algorithm to reduce human labor.

Cedarville University, Cedarville, OH   Spring of 2016
Research Librarian
Assisted students in utilizing library sources and various search engines to answer research questions.

Maine Medical Center, Portland, ME   Summer of 2015
Radiology Representative
Worked with imaging archives and patient records in EPIC and PACS to provide patient information for other providers and onsite clinical workers. I also arranged and scheduled X-rays for the entire hospital.

PRESENTATIONS

Determination of CcmA Localization in Helicobacter pylori Through 3D Cell Modelling   2016
Gave an oral and poster presentation at Mathematical Biosciences Institute for the 2016 Undergraduate Capstone Conference.

Determination of CcmA Localization in Helicobacter pylori Through 3D Cell Modelling   2017
Accepted speaker at the 2017 Emerging Researchers National Conference.

Exploration of Charge Transfer Mechanisms in Photosystem II using QM/MM and MD Simulations   2017
Presented research at the Conference of the Annual Summer School in Molecular Biophysics and
Systems Biology for the Czech Academy of Sciences.