Bailey Smoot
Curriculum Vitae

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in https://www.linkedin.com/in/bailey-smoot

PROFESSIONAL EXPERIENCE

SEP 2019 – PRESENT

Midwestern State University
Joint Admission Medical Program Co-Coordinator

-advising students on medical school preparation, tutoring

JAN 2018 – PRESENT

Midwestern State University
Chemistry Student Assistant/Tutor

-grading for department, tutoring

AUG 2017 – PRESENT

Midwestern State University
Physical Chemistry Research Student in a Computational Lab

-computational modeling, data gathering and analysis, theoretical non-linear science

AUG 2018 – SEP 2019

Sewn Clothing Gallery
Sales Associate

-customer service, marketing, business awareness

CERTIFICATIONS

American Chemical Society Certified Chemist (Expected May 2020)

PUBLICATIONS

Sharma, P., Hallford, R., Smoot, B., Capotosto, S. (2019). Entropy Production, Entropy Generation, and Fokker-Planck Equations for Cancer Cell Growth. *Physics*, *1*(1), 147-153.

2019   **doi:10.3390/physics1010014**

UNIVERSITY INVOLVEMENT

Non-Linear Science Research Group

Gamma Phi Beta Sorority

Gamma Sigma Epsilon Chemistry Honors Society

College of Science and Mathematics Peer Mentor

American Chemical Society

Order of Omega Honors Society

Redwine Honors Program

International Biophysical Society

Pi Mu Epsilon Mathematics International Honors Society

EDUCATION

2016-PRESENT   **Bachelor of Science**
4.0 GPA
Department of Chemistry
Midwestern State University

2014-2016   **Dual Credit**
4.0 GPA
University of Texas of the Permian Basin

SCHOLARSHIPS AND AWARDS

2016-2020   **President's Distinguished Scholar**
Midwestern State University

2016-2020   **President's Honor Roll**
Midwestern State University

2017-2020   **Welch Research Scholar**
Midwestern State University

2018   **Oustanding Organic Chemistry Student**
Midwestern State University

2019   **Oustanding Analytical Chemistry Student**
Midwestern State University

2019-2020   **Dr. Sund Chemistry Scholar**
Midwestern State University

SKILLS

BEGINNER	Latex, PyMol, RStudio
INTERMEDIATE	Instrumental Analysis, Volumetric Analysis, Gravimetric Analysis, Excel, Technical Writing
EXPERT	Computational Software, Data Modeling, Word Processing, Public Speaking

PRESENTATIONS

ORAL	Entropy Distinction using Fokker-Planck Equations Biophysics and Quantitative Biology Conference – 2019
POSTER	Cancer Mechanism Through Non-Equilibrium Physics Nature: Functional Dynamics – 2019
POSTER	Kinetic Analysis of Ras-Q61 Mutations in Oncogenic Cells Biophysical Society International Conference – 2019
POSTER	Cancer Mechanism Through Non-Equilibrium Physics Biophysical Society International Conference – 2019
POSTER	Thermodynamic Analysis of the Ras-Q61 Moiety via Non-Equilibrium Entropic Changes in GTP Hydrolysis ACS Pentasectional Meeting – 2019