Joshua Caperton Curriculum Vitae

<u>JoshuaCaperton2@my.unt.edu W. Mulberry St, Denton, TX, 76203</u>

Education

May 2017 – Present <u>University of North Texas</u>

PhD, Analytical/ Materials Chemistry

Denton, Texas, United States

August 2013 – May 2017 <u>University of North Texas</u>

Bachelor of Science, Chemistry

Denton, Texas, United States

Research Experience

May 2017 – Present PhD Student

Advisor: Dr. Oliver Chyan (chyan@unt.edu)

Interfacial Electrochemistry and Materials Research (IEMR) Lab

Department of Chemistry, University of North Texas

Denton, Texas, United States

January 2017 – May 2017 Undergraduate Research

Advisor: Dr. Paul Marshall

Atmospheric Studies of Known Greenhouse Gas Pollutants

Department of Chemistry, University of North Texas

Denton, Texas, United States

May 2016 – Dec. 2016 Undergraduate Research

Advisor: Dr. Samuel Tenney

Thin Film Development for CO₂ Capture

Department of Chemistry, University of North Texas

Denton, Texas, United States

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Expertise

X-Ray Photoelectron Spectroscopy (XPS), Scanning Electron
Microscope (SEM), Energy Dispersive X-Ray (EDX) Spectrometry,
Quartz Crystal Microbalance (QCM), Contact Angle Measurement,
Infrared Spectroscopy (FTIR) – Multiple Internal Reflection (MIR),
Transmission (TIR), Magnetron Sputtering, Contact Angle
Measurement, Spin Coating, Wafer Cutting

Societies

June 2016 – Present American Chemical Society (ACS)

Accepted Publications

 Novel Corrosion Prevention Treatments for Cu Wire Bonded Device to Improve Bonding Reliability, M. Asokan, J. Caperton, Z. Thompson, O. Chyan, M. Chowdhury, S. O'Connor, L. Nguyen, 2018 IEEE 68th Electronic Components and Technology Conference (ECTC)

References

Graduate Research Advisor – Dr. Oliver Chyan: chyan@unt.edu

Undergraduate Research Advisor – Dr. Paul Marshall: marshall@unt.edu