Thomas D. Kiselak
Ph.D. Student.
 tkiselak@gmail.com

EDUCATION

University of North Texas, Denton, TX
Ph.D. in Analytical Chemistry   2016 - Present
Advisor: Guido F. Verbeck Ph.D.

University of Scranton, Scranton, PA.
B.S. Major: Neuroscience, Minor: Biochemistry   2013-2016
Undergraduate Advisor: Bryan Burnham Ph.D.

RESEARCH

Mass Spectrometric Identification, University of North Texas, Laboratory of Imaging Mass Spectrometry (LIMS), September 2016 – Present Duties: Characterize unknown compounds utilizing GC-MS, ESI-MS, ICP-MS, and LC-MS

Illicit Drug Synthesis and Modification, University of North Texas, Laboratory of Imaging Mass Spectrometry (LIMS), September 2016 – Present Duties: Synthesize and develop novel illicit drug compounds and characterize for database purposes.

Explosives Synthesis, University of North Texas, Laboratory of Imaging Mass Spectrometry (LIMS), September 2016 – Present Duties: Synthesize and characterize explosives utilizing portable membrane-inlet mass spectrometers.

Teaching Experience

Graduate Teaching Assistant, University of North Texas, Department of Chemistry, September 2016 – 2017. Duties: Instruct students on instrumentation and its uses, while maintaining safety: Professor: Guido Verbeck Ph.D. 20 hours weekly

Tutor, Center for Teaching and Learning Excellence, University of Scranton, August 2014- May 2016. Duties: Tutored students in courses such as: Organic Chemistry, Physics, and Behavioral Neuroscience. Supervisor: Mary Ellen Picharello, M.S. 8 hours weekly.

PUBLICATIONS

McBride, E., **Kiselak, T**., Verbeck, G. Structure-Activity Relationship Study of Phenylalkylamine Drug Analogues Using Both Rapid Cell Membrane Stationary Phase Extraction and Parallel Artificial Membrane Permeability Assay Coupled to Electrospray Ionization-Mass Spectrometry {In Review}

SKILLS

- Experienced with microscopy techniques such as SEM, TEM and various optical microscopes.
- Advanced experience in Microsoft Office, OMNIC, Agilent ChemStation, ACD Labs, SolidWorks, Thermo Xcalibur, Varian ICP-MS Expert, ChemSketch, Avogadro, and PSI-Plot.
- Experience in various analytical instrumentation including: Ion traps (quadrupole and linear ion traps), triple quadrupole, ICP-MS, LC-MS, GC-MS, UV-Vis Spectroscopy, Raman Spectroscopy, and FTIR
- Experienced with multiple ionization sources including: ICP, ESI, DESI, MALDI, LDI, EI, and CI.

AWARDS

- Mary D. Walsh Endowed Scholars, Denton, TX   2017 - Present
- Academic Achievement Scholarship, Denton, TX   2016 - Present
- Graduate Assistant Tuition Scholarship, University of North Texas, Denton, TX   2016 - Present

MEMBERSHIPS/ POSITIONS

Alpha Lambda Delta   2016 - Current
National Honor Society   2010 - Current