

Timothy A. Parker

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Education:

PHD., CHEMISTRY | UNIVERSITY OF NORTH TEXAS | EXPECTED 2023

- Related coursework: Medicinal Chemistry, Advanced Physical Chemistry

B.S., INTERDISCIPLINARY CHEMISTRY | TARLETON STATE UNIVERSITY | 2016

- Related coursework: Quantitative Analysis, Organic Chemistry, Physical Chemistry, Instrumental Analysis, etc.

B.S., BIOMEDICAL SCIENCES | TARLETON STATE UNIVERSITY | 2012

- Concentration: Pre-Medical
- Related coursework: Microbiology, Immunology, Biochemistry, Physiology, Anatomy, etc.

Research Experience:

RESEARCH ASSISTANT | TARLETON STATE UNIVERSITY | 2016-2017

- Supervisor: Dr. Linda D. Schultz
- Projects: Food chemistry, water quality, chemical education, medical laboratory analysis.
 - Laboratory techniques:
 - Spectroscopy, including: NMR, UV-VIS, and Infrared.
 - Chromatography, including: TLC, GC, Size-exclusion, and Ion-exchange.
 - Associated data analysis techniques:
 - Image analysis via ImageJ
 - Microsoft Office including Word and Excel.
 - Statistical testing, including: Q-Test, Paired T-Test, Method of Least Squares, and One Way ANOVA.

Publications:

PAPERS

- Volmer, D. A.; Curbani, L.; Parker, T. A.; Garcia, J.; Schultz, L. D.; Borges, E. M. Determination of Titratable Acidity in Wine Using Potentiometric, Conductometric, and Photometric Methods. *J. Chem. Educ.* **2017**, *94*, 1296-1302.

Presentations:

POSTERS

- "Dietary Effects on Urinary Sulfate Levels in Pigs Measured by a Conductometric Method", Jennifer Garcia, Timothy A. Parker, Kimberly A. Guay, and Linda D. Schultz, 253rd ACS National Meeting, San Francisco, CA, April 3, 2017.
- "End Point Detection in Determination of Titratable Acidity in Grape Wines", Timothy A. Parker, Jennifer Garcia, and Linda D. Schultz, Southwest Regional Meeting of the American Chemical Society, Galveston, TX, November 11, 2016.

Teaching Experience:

ADJUNCT LAB INSTRUCTOR | TARLETON STATE UNIVERSITY | 2017

- Courses: College Chemistry I (five total sections)

LAB ASSISTANT | TARLETON STATE UNIVERSITY | 2016-2017

- Courses: College Chemistry II, Fundamentals of Chemistry, Honors College Chemistry II.

SUBSTITUTE TEACHER | STEPHENVILLE INDEPENDENT SCHOOL DISTRICT | 2014

- Level: High School

SUPPLEMENTAL INSTRUCTOR | TARLETON STATE UNIVERSITY | 2011-2012

- Courses: Organic Chemistry I, College Chemistry I

Grants Awarded:

- Travel Grant: Tarleton State University Office of Undergraduate Research, for all travel expenses to attend the Southwestern Regional Meeting of the American Chemical Society in Galveston, Texas Nov. 10-12 2016.

Awards and Honors:

- Howard Nance Tarleton Chemical Society Scholarship Recipient (2016)
- Honors Degree Graduate (2012)
- Outstanding Freshman Chemistry Student (2009)

Affiliations:

- Sigma Xi: Scientific Research Honor Society (2016)
- American Chemical Society – Tarleton Chapter (2015)
- Alpha Phi Omega, National Coed Service Fraternity (2010)
- Kappa Kappa Psi, National Honorary Band Fraternity (2009)
- Phi Eta Sigma Freshman Honor Society (2009)