

Cormak Weeks

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PERSONAL STATEMENT

As a graduate research assistant with a keen interest in the field of advanced control of 3D printing of soft matter, I am deeply committed to exploring the cutting-edge techniques and technologies that enable greater precision and control of the internal structural quality.

EDUCATION

North Carolina State University	Raleigh, NC
Ph.D. in Chemical Engineering, Advisors: Dr. Lilian Hsiao and Dr. Wentao Tang, GPA: 3.927	Expected 2027
Texas Tech University	Lubbock, TX
B.S. in Chemical Engineering with Honors, GPA: 3.88, Magna Cum Laude Major GPA: 3.92 Minor in Mathematics	May 2022
Texas Tech University	Lubbock, TX
B.S. in Chemistry with Honors, GPA: 3.88, Magna Cum Laude Major GPA: 3.86	May 2022

PROFESSIONAL EXPERIENCE

Undergraduate Research Assistant:	2019-2022
Mentor: Dr. Jeremy Marston, Department: Chemical Engineering (Topic: High-speed and ultra-high-speed photography to general fluid dynamics)	
Undergraduate Research Assistant:	2020
Mentor: Dr. Anthony Cozzolino, Department: Chemistry (TTU CHEM 3000) (Topic: Ditelluride centered stereospecific chemical recognition compounds)	
Undergraduate Research Assistant:	2021-2022
Mentor: Dr. Gordon Christopher, Department: Mechanical Engineering (DOE Scholar) (Topic: Visualization of the extrusion of energetic materials)	

AWARDS & HONORS UNDERGRADUATE

● Presidential Academic Scholarship	2018-2022
○ Presidential Scholarships are awarded to entering first-time freshman who show exceptional academic ability	
● Sowell Scholarship	2018-2022
○ Freshman students showing exceptional academic in engineering	
● Dean's List	2018-2022
○ GPA of 3.5 or higher during a semester	
● President's list	2018-2020
○ GPA of 4.0 during a semester	
● Conocophillips Mentor Scholarship	2019
○ Participated as a mentor in the Conocophillips bridge program	

- **McCavit Quasi Endowed Scholarship** **2020**
 - Scholarship awarded exceptional Chemical Engineering students
- **Outstanding Undergraduate Researcher** **2020**
 - Awarded to TTU undergraduate students for their exemplary performance and dedication to undergraduate research and creative activities
- **Department of Energy Growing Stems Consortium scholarship** **2020-2021**
- **Robert C. Goodwin Memorial Endowed Scholarship** **2020**
 - Scholarship for exceptional Chemistry and Biochemistry undergraduate students
- **Richard A. Bartsch Endowed Scholarship** **2021**
 - Scholarship for exceptional Chemistry and Biochemistry undergraduate students
- **Spangler Law PC Scholarship** **2021**
 - Scholarship awarded exceptional Chemical Engineering students
- **Second Place Engineering Design Project** **2022**
- **Outstanding Chemical Engineering Student** **2022**

AWARDS & HONORS GRADUATE

- **Provost's Doctoral Fellowship** **2022**
 - Awarded to outstanding potential doctoral students at North Carolina State University
- **Graduate Merit Award** **2022**
 - Awarded to outstanding incoming graduate students
- **University Graduate Fellowship** **2022**
 - Awarded to outstanding incoming graduate students

PEER-REVIEWED ARTICLES

- Pankaj Rohilla, Y. Rane, I. Lawal, A. Le Blanc, J. Davis, J. B. Thomas, C. Weeks, W. Tran, P. Fisher, K. E. Broderick, J. A. Simmons, J. O. Marston. (2019) "Characterization of jets for impulsively-started needle-free jet injectors: Influence of fluid properties" **Journal of Drug Delivery Science and Technology** 53, 101167
- P. Rohilla, I. Lawal, A. Le Blanc, V. O'Brien, C. Weeks, W. Tran, Y. Rane, E. Khusnatdinov, J. Marston. (2020) "Loading effects on the performance of needle-free jet injections in different skin models" **Journal of Drug Delivery Science and Technology**, 60, 102043
- W. Tran, C. Weeks, Y. Rane, and J. Marston (2023) "Effect of nozzle shape and applied load on jet injection efficiency" **Journal of Drug Delivery Science and Technology**, 87, 104640

MENTORING EXPERIENCE

- **ConocoPhillips Academic Success Bridge Program** **2019**
 - The ConocoPhillips Academic Success Bridge Program provides study skills training, academic preparation training, tutoring, mentoring, and other academic support services
- **Materials Research with Data Science REU** **Summer 2023**
 - Mentee: Amory Gaylord, Computer Science NCSU

- Materials Research with Data Science (MAT-DAT) will strive to provide undergraduate students with training and hands-on experience in data science through their involvement in cutting-edge materials engineering projects

EXTRACURRICULARS

- **AICHE Member** **2018-2022**
Member of the student chapter of AIChE participating in volunteer activities.
- **Lubbock ISD Volunteer** **2021-2022**
Volunteered at Hodges elementary school working with K-12 Title IX students