

Sean Stokes - Ft. Collins, CO
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Education

Colorado State University, Ft. Collins, CO

PhD – Environmental Chemistry (in progress), August 2019 – Spring 2023

GPA: 3.93 Advisor: Dr. Thomas Borch

Colorado State University, Ft. Collins, CO

M.S. – Toxicology, August 2017 – May 2019

GPA: 3.95

University of Miami, Coral Gables, FL

B.S. – Psychology, August 2006 – May 2010

Minors: Chemistry and Sports Medicine

Relevant Skills

- Chemical Analysis Experience – LC-MS, GC-MS, IC, UV Spectroscopy, Fluorescence Spectroscopy, FID
- Communication Skills – both written and verbal excellence, experienced presenting to both small and large groups
- Leadership – a natural leader that excels working in teams, confident decision making, & extensive experience training others
- Self-Motivated – strong work ethic reflected by promotions in every paid position and successes in graduate school

Research Experience

CSU Soil & Crop Science Department – Dr. Thomas Borch, Ft. Collins, CO

Graduate Research Assistant – PhD position, August 2019 – present

- Full time PhD student conducting research on soil health and attending graduate level classes

CSU Chemistry Department – Dr. Thomas Borch, Ft. Collins, CO

Graduate Research Assistant – Volunteer, February 2018 – August 2019

- Assisted PhD students with extractions, bulk measurements, and chemical analysis in an environmental chemistry lab
- Participated in weekly group meetings, presented projects for critique, and contributed to frequent lab cleanings

CSU Toxicology Department – Dr. William Hanneman, Ft. Collins, CO

Graduate Research Assistant, September 2018 – April 2019

- Drafted a manuscript with a PhD student that was intended for publication and presented on this research

UM Psychology Department – Dr. Frank Penedo, Miami, FL

Research Assistant, August 2008 – May 2010

- Observed confidential participant interviews/assessments and entered data for statistical analysis
- Assembled blood work and saliva medical packets for delivery to patients/study participants

Scientific Publications

Stokes, Sean; Trivedi, Pankaj; Borch, Thomas. "Decreased Soil Health via Depletion of Soil Organic Matter Limits Plant Productivity." Plan to submit to *Soil Biology and Biochemistry*, *In progress*.

Hejase, Charifa; Weitzel, Katelin; **Stokes, Sean;** Grauberger, Brandi; Young, Robert; Arias-Paic, Miguel; Kong, Minghao; Chae, Soryong; Bandhauer, Todd; Tong, Tiezheng; Herber, Daniel; Stout, Sherry; Miara, Ariel; Huang, Zhe; Evans, Anna; Kurup, Parthiv; Talmadge, Michael; Kandt, Alicen; Stokes-Draut, Jennifer; Macknick, Jordan; Borch, Thomas; Dionysiou, Dionysios. "Opportunities for Treatment and Reuse of Agricultural Drainage in the U.S." Submitting to *Environmental Science and Technology – Engineering*, *In review* – (Special issue related to NAWI). 2021.

Cooper, Carolyn; McCall, James; **Stokes, Sean;** McKay, Cameron; Bentley, Matthew; Rosenblum, James; Blewett, Tamzin; Huang, Zhe; Miara, Ariel; Talmadge, Michael; Evans, Anna; Sitterley, Kurban; Kurup, Parthiv; Stokes-Draut, Jennifer; Macknick, Jordan; Borch, Thomas; Cath, Tzahi; Katz, Lynn. "Oil and Gas Produced Water Reuse: Opportunities, Treatment Needs, and Challenges." Submitting to *Environmental Science and Technology – Engineering*, *In review* – (Special issue related to NAWI). 2021.

Thomas Borch; Dion D. Dionysiou; Lynn Katz; Pei Xu; Todd Bandhauer; Richard Breckenridge; Soryong (Ryan) Chae; Kirk Ellison; Jessica Fox; Brandi Grauberger; Charifa A. Hejase; Daniel Herber; Minghao Kong; Jordan Macknick; David Sedlak; **Sean**

Stokes; Jennifer Stokes-Draut; Tiezheng Tong; Katelin A. Weitzel; Robert B. Young. 2021. National Alliance for Water Innovation (NAWI) Technology Roadmap: Agriculture Sector. DOE/GO-102021-5562. <https://www.nrel.gov/docs/fy21osti/79881.pdf>

Soryong Chae, Charifa Hejase, Robert B. Young, Sargeant Green, Tiezheng Tong, Kyoung-Yeol Kim, Jennifer Stokes-Draut, **Sean C. Stokes**, Minghao Kong, Hyunsik Kim, Parthiv Kurup, Jordan Macknick, Thomas Borch, and Dionysios D. Dionysiou. "Challenges and Opportunities in Reuse of Treated Wastewater for Agriculture in the United States: A Critical Review." Submitted to *Environmental Science and Technology – Engineering*, *In review*

Rehberg, R., Trivedi, P., Bahureksa, W., Sharp, J., **Stokes, S.**, Menger, R., Borch, T. "Quantification of insecticide spatial distribution within individual citrus trees and efficacy through Asian citrus psyllid reductions under different application methods." *Pest Management Science*. 2020.

Conferences:

Soil Science Society of America annual conference, 11/2021

Presented: "Soil Health Variability in a Citrus Greening Disease Infected Grove"

National Alliance for Water Innovation (NAWI) spring conference, 5/2021

Presented: "Potential for the Reuse of Agricultural Runoff for Irrigation"

National Center for Appropriate Technology (NCAT) Soil Health Innovations conference, 3/2021

Presented: "A Molecular Mechanisms Approach to Best Management Practices"

Recent Extracurricular Activities

Growing Food Security, Fort Collins, CO

Grad Student Leader/Volunteer, May 2020 – present

- Volunteer with a small group of agricultural students at CSU's ARDEC-South agricultural field to grow, harvest, and distribute fresh produce to the CSU food pantry during the COVID-19 pandemic
- Success of this project in year one has led to expansion of this program in the summer of 2021 with the hope of establishing a CSU food security program for years to come that will supply food insecure CSU students/employees with fresh produce

Colorado Early Colleges, Fort Collins, CO

High School Student Mentor, August 2020 – present

- Mentor a small group of students on agricultural related projects

Wildland Restoration Volunteers, Fort Collins, CO

Volunteer, June 2019 – present

- Restore wildland areas along the front range through replanting of native vegetation and trail construction

National Sports Center for the Disabled, Winter Park, CO

Snowboard Instructor, December 2011 - April 2015 (winters only)

- Taught children with developmental disabilities how to snowboard or assisted paraplegics with the sit ski's

Work Experiences

The Boot Grille, Loveland, CO

Caterer, Manager, Server, Bartender, September 2017 – July 2019

- Primarily as a caterer I prep, cook, and serve food for in house parties and large off-site events
- Multiple roles including managing a dozen front of house employees and resolving any customer complaints

Seven Step RPO, Denver, CO

Senior Recruiter – Account: Aetna Health Care, August 2015 – May 2017

- Adhered to strict compliance policies regarding the health care industry and hiring practices
- Conducted a professional business manner throughout continuous phone and email communication
- Consistently managed ~50 job openings and established relationships with both job candidates and hiring managers
- Trained new employees on recruiting nuances, organization, and account specific responsibilities

Garden Inc., Littleton, CO

Behavior Therapist, May 2015 – August 2015 (summer camp)

- Utilized ABA therapy techniques to change behavior of autistic children in a positive manner
- Responsibly monitored multiple children in public venues while teaching social and life skills to them

The Library Sports Bar and Grille, Winter Park, CO

Server, January 2013 – April 2015

- Balanced the combination of keeping people happy and moving quickly at a high-volume restaurant

Lost Paddle Rafting, Cañon City, CO (*previous company*: Adventures in Whitewater, Winter Park, CO, 5/2011 – 9/2013)

Trip Leader/Raft Guide, May 2014 – September 2014 (summers only)

- Class V certified whitewater rafting guide, originally trained on the upper Colorado River during high water in May 2011 and during my last summer in 2014, I guided the Royal Gorge on the Arkansas River
- As a trip leader I was responsible for the logistics and safety of trips ranging from ½ day to multi-day trips
- Trained “rookie” raft guides on safety and river navigation

Intrawest - Winter Park Resort, Winter Park, CO

Bartender, Wedding Caterer, Server, Cook, December 2010 – May 2013

- Performed a variety of different jobs in the food and beverage industry including both front and back of house positions at the ski resort’s various restaurants, bars, and catered weddings

Aramark at Red Rocks, Golden, CO

Stand Manager/Bartender, May 2007 – October 2011 (summers only)

- Managed employees to ensure our stand ran with optimum efficiency and had quality customer service
- Handled multiple tasks simultaneously; supervised employees, managed a cash drawer, poured drinks, and communicated with customers to ensure their happiness with the service

Golden Boys Painting, Golden, CO

Co-Owner, January – August 2009

- Founded a painting company that brought in approximately \$40,000 of income in one summer
- Drafted legal contracts and completed requirements of binding contract with proficiency
- Budgeted costs, performed cold-call marketing, and projected incomes to maintain a profitable business

University of Miami Wellness Center, Coral Gables, FL

Fitness Assistant, IM Referee, January 2007 – May 2010

- Assisted gym patrons with any questions, checked out equipment, and helped maintain a clean exercise environment
- Referee for various intramural sports and typically given responsibility of important playoff games

College Pro Painting, Golden, CO

Job Site Manager, May – August 2008

- Supervised three painters to ensure perfect completion of the job and handled any on site problems
- Communicated with both customer and franchise manager to provide the customer with complete satisfaction

References – additional references available upon request

Dr. Thomas Borch

Professor

Colorado State – Soil & Crop Science

Ft. Collins, CO, USA

thomas.borch@colostate.edu

Dr. Pankaj Trivedi

Professor

Colorado State – Agricultural Biology

Ft. Collins, CO, USA

pankaj.trivedi@colostate.edu

Dr. Jim Ippolito

Professor

Colorado State – Soil & Crop Science

Ft. Collins, CO, USA

jim.ippolito@colostate.edu

Other Skills

- Expert in Microsoft Office products
- Extensive literature and web researching skills
- Basic knowledge of Spanish