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## **Profile**

- Accomplished scientist and experienced leader skilled in guiding diverse teams, fostering strong professional networks, and driving cutting-edge research
- Cutting-edge innovator specializing in AI-driven marketing, content, and seamless sales tool integration
- Business philosophy prioritizes transparency, mentorship, and continuous employee growth, fostering mutual success and development

## **Experience**

**ExoConsulting, LLC, Fredericksburg, VA**

*President*

2020 – Present

### **Chesapeake Analytics**

- Conduct business development for a climate and environmental intelligence platform in the North American markets; Promote improved health and wellness through outdoor air quality awareness; Facilitate sales process between Ambee and potential customers
- Promote corporate sustainability through our business partnership with Ambee; Service integrated with marketing platform to quantify for Level 3 carbon emissions to aid in achieving Net Zero emissions
- Drive growth for a global innovator in managing and mitigating weather and climate risk, focusing on agricultural application, solar/wind forecasts, and energy cost reduction

### **RaceWeather**

- Provide guidance and mentoring to a team of operational meteorologists
- Expanded company's coverage of race series to five series, while building staff to support these forecasting efforts
- Develop and publish weather forecasts for NASCAR and Formula 1 race weekends on RaceWeather.net and across social media

### **EC Sports Management - U.S. Soccer Federation-Approved Intermediary**

- Perform business development and marketing sales representing seven driver-clients, four race teams across six race series, and three student-athletes, supporting their NIL efforts
- Represent fifteen footballers and five coaches, acting on their behalf to find opportunities across North America and Europe; Negotiate with sports team management for client compensation, benefits, and player incentives
- Collaborated with NFL alumnus Jarrod Bunch to launch a Black-owned NASCAR Xfinity team in the 2022 season; Facilitated technical alliance discussions with manufacturers and NASCAR Cup team representatives

## **Experience (cont.)**

### **DTN, Norman, Oklahoma**

*Meteorologist* 2019

- Performed specialized marine forecasting, including marine transits and tropical cyclone forecasting, implementing knowledge of regional meteorological phenomena
- Conducted severe weather monitoring and issue severe weather alerts, yielding actionable insight for our clients

### **DTN, Houston, Texas (Acquired Wilkens Weather Technologies in September 2017)**

*Marine Team Lead* 2017 – 2019

- Led a team of operational meteorologists; responsible for mentoring, formulating career goals, recruiting new talent, and conflict management
- Provided expert witness services, including deposition and testimony with regards to historical weather conditions
- Provided technical assistance to Sales by aiding in the preparation and review of proposals, coordinating product demonstrations, defining operational requirements, and assisting with customer integration

*Manager, Weather Operations (Wilkens Weather Technologies)* 2013 – 2017

*Senior Meteorologist (Wilkens Weather Technologies)* 2010 – 2013

- Supervised Arctic meteorological research project, which yielded an overview of the regional effects in both the weather and forecast modeling; Compiled and edited the final deliverable report to the client; Generated presentation and was a speaker at the final client meeting
- Conducted short-term, long-term, and tropical forecasting for North America, Europe, and Australia for a variety of onshore and offshore energy sector clients

### **Weather Insight, L.P., Houston, Texas**

*Senior Manager, Research and Analytics* 2007 – 2010

- Supervised a team of scientists and software developers coordinating project schedules, imparted professional guidance, and offered technical direction
- Led and managed customer support functions including training of new clients and employees in the operation of our weather software services, responding to client questions and troubleshooting installation issues
- Developed and maintained software development schedule in order to manage client requirements, priorities assigned by senior management, and deliverables with our technology partners

### **Avant Capital Management, Houston, Texas**

*Chief Meteorologist* 2006 – 2007

## Experience (cont.)

### Source Environmental, Houston, Texas

*Vice President, Air Quality* 2004 – 2006

*Senior Engineer* 1995 – 1997

- Supervised a team of engineers and scientists; Coordinated project schedules and provided expert technical guidance
- As the senior engineer, conducted and supervised air quality modeling studies ranging from instantaneous accidental discharges to long-term releases of pollutants using EPA-approved air quality models
- Provided engineering and meteorological analysis for Source's senior management's testimony as an expert witness

## Education

### Doctor of Philosophy in Atmospheric Sciences, University of Houston, 2020

Dissertation *Spatiotemporal Variations of Saturn's Zonal Winds based on Cassini Long-term (2004-2017) Multi-instrument Observations*

Committee Chairs: Drs. Liming Li and Xun Jiang

### Achievements

- Graduated *cum laude*, College of Natural Science and Mathematics, Spring 2020  
Department of Earth and Atmospheric Sciences, University of Houston
- Scholarships for "Outstanding Academic Achievement" Spring 2018 & 2019  
Department of Earth and Atmospheric Sciences, University of Houston
- Visiting Researcher focused on dissertation writing and data analysis; Fall 2018  
Presented Fall 2018 seminar on Cassini research to College of Geography and Earth Sciences, Department of Meteorology, Eötvös Loránd University, Budapest, Hungary

### Master of Science in Meteorology, Texas A&M University

Thesis *Effects of Coastal Transitions on Cloud-to-Ground Lightning*

Committee Chair: Dr. Richard Orville

### Achievements

- Inducted into Chi Epsilon Pi, the National Honor Society for Atmospheric Sciences

### Graduate courses in Aerospace Engineering, University of Maryland

### Bachelor of Science in Aerospace Engineering, University of Michigan

## Publications

**Studwell, A.,** Li, L., Jiang, X., Dowling, T.E., 2020, Asymmetrical Expansion of Bright Clouds from Saturn's 2010 Great White Storm (Invited Speaker and Keynote Presentation), *5th International Conference on Geology & Earth Science*, London, England, UK (Virtual), GeoScience 2020.

**Studwell, A.** (2020). *Spatiotemporal Variations of Saturn's Zonal Winds Based On Cassini Long-term (2004-2017) Multi-Instrument Observations*. University of Houston Press.

**Studwell, A.,** Li, L., Jiang, X., Dowling, T.E., 2019, Unsymmetrical Expansion of Bright Clouds from Saturn's 2010 Great White Storm (Poster), *Preprints, Planetary Sciences*, San Francisco, CA, American Geophysical Union.

**Studwell, A.,** Li, L., Jiang, X., Baines, K., Fry, P., Momary, T., and Dyudina, U., 2018, Saturn's Global Zonal Winds Explored by Cassini/VIMS 5- $\mu$ m Images, *Preprints, Planetary Sciences*, Washington, DC, American Geophysical Union.

Jiang, X., Corbett, A. Creecy, E., La, J., **Studwell, A.,** Li, L., Frankenberg, C. Yung, Y., 2018, Variations of Solar-Induced Fluorescence, Carbon Dioxide, and Water Cycle (Poster), *Preprints, Atmospheric Sciences*, Washington, DC, American Geophysical Union.

**Studwell, A.,** Li, L., Jiang, X., Baines, K., Fry, P., Momary, T., and Dyudina, U., Saturn's Polar Zonal Winds Explored by Cassini/VIMS 5- $\mu$ m Images, *Geophysical Research Letters*, July 2018. DOI:10.1029/2018GL078139

**Studwell, A.,** Jiang, X., Li, L., 2017, Synoptic and Climatological Analysis of the 1933 Trinidad Hurricane, *Preprints, Tropical Meteorology*, San Francisco, CA, American Geophysical Union.

Li, L., Jiang, X., **Studwell, A.,** Kao, A., Baines, K., Momary, T., Fry, P., Ingersoll, A., Janssen, M., Sanchez-Lavega, A., Achterberg, R., Simon, A., Dyudina, U., and West, R., 2016, Spatiotemporal Variability of Saturn's Zonal Winds from Cassini Multi-Instrument Observations, *Preprints, Planetary Atmospheres and Evolution*, San Francisco, CA, American Geophysical Union.

**Studwell, A.,** 2013, Mild West Pacific Typhoon Season Predicted, *Asian Oil & Gas* (Digital Edition), May 2013.

**Studwell, A.,** 2013, Hurricane Season Outlook for 2013, *Offshore Engineer*, May 2013.

## **Publications (cont.)**

**Studwell, A.**, 2011, Hurricane Season Outlook for 2011, Pipeline & Gas Journal, July 2011.

Mitchell, S. and **Studwell, A.**, Weather forecast system and method, U.S. Patent Application, 12/348,152.

**Studwell, A.**, 2000, Reducing Weather Derivative Risk. *Preprints, Second Symposium on Environmental Applications*, Long Beach, CA, American Meteorological Society, 360-364.

**Studwell, A.**, 1999, Weather Derivatives. *Preprints, Eleventh Conference on Applied Climatology*, Dallas, TX, American Meteorological Society, 36-40.

**Studwell, A.**, Effects of Coastal Transitions on Cloud-to-Ground Lightning, 1995, Texas A&M University Press, College Station, TX, 136 pp.

**Studwell, A.**, and J. Nielsen-Gammon, 1995, Mesoscale Analysis of the March 27, 1994 Severe Weather Outbreak. Technical Memorandum NWS-SR-166, National Weather Service, Fort Worth, TX, 25 pp.

**Studwell, A.**, and R. Orville, 1995, Characteristics of Cloud-to-Ground Lightning in a Severe Winter Storm, 9-12 February 1994. *Preprints, Sixth Conference on Aviation Weather Systems*, Dallas, TX, American Meteorological Society, 176-181.