Julio E. Chávez Dorado

Ph.D. Student · Mechanical Engineering

University of Washington, Seattle, WA

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Educatio	n	
PHD MECHAN	f Washington ICAL ENGINEERING This is the state of the	Seattle, Washington, USA 2021 - present
MS CIVIL ENG	ity of Texas at Austin INEERING : Blair Johnson	Austin, Texas, USA 2019 - 2021
BS CIVIL ENGI	Autónoma Gabriel René Moreno NEERING : Francisco García-Gutiérrez	Santa Cruz, Bolivia 2012 - 2017
Professional Experience		
2021 - pres. 2022 - 2023 2019 - 2021 2018 - 2019 2018 - 2019 2015 - 2016	Graduate Research Assistant, University of Washington Graduate Teaching Assistant, Mechanical Engineering, University of Washington Graduate Research Assistant, The University of Texas at Austin Engineer-in-Training, Demo Construction Company Intern, Santa Cruz Government - Infrastructure Division Undergraduate Research Assistant, Civil Engineering, Universidad Autónoma Gabr	iel René Moreno
Awards, Fellowships, & Grants		
2023	Link Foundation Fellowship, The Link Foundation	
2021	Riley Family Endowed Fellowship in Mechanical Engineering , University of Washington	
2020	George J. Heuer, Jr. Ph.D. Endowed Graduate Fellowship , The University of Texas at Austin	
2019	Fulbright Fellowship, U.S. Department of State Walter L. and Reta Mae Moore Graduate Fellowship in Water Resources, The University of Texas at Austin	
2017	Opportunity Funds Scholarship, U.S. Department of State	
2015	Undergraduate Research Fellowship , Universidad Autónoma Gabriel René Moreno	
2014	Undergraduate Excellence Scholarship , Universidad Autónoma Gabriel René Moreno	
2008 - 2011	Abraham Lincoln Scholarship, U.S. Department of State	

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Presentations

CONTRIBUTED PRESENTATIONS

- **Chávez-Dorado, J.***, Scherl, I., DiBenedetto, M. (2022). Data-driven technique for decomposing the relative effects of waves and turbulence. Oral Presentation: *American Physical Society Division of Fluid Dynamics Meeting*, Washington, DC.
- **Chávez-Dorado, J.***, Scherl, I., DiBenedetto, M. (2023). Data-driven decomposition of the relative effects of surface waves and turbulence on velocity measurements. Poster: *Waves in Sea Environment Meeting*, Princeton, New Jersey.
- Baker, L.*, Aggarwal, A., **Chávez-Dorado, J.**, Garrey, I., DiBenedetto, M. (2023). Buoyant, Non-Spherical Particles in Turbulent Wind-Driven Waves. Oral Presentation: *Waves in Sea Environment Meeting*, Princeton, New Jersey.
- **Chávez-Dorado, J.***, Baker, L., DiBenedetto, M. (2022). Wave-turbulence decomposition of particle trajectories. Oral Presentation: *American Physical Society Division of Fluid Dynamics Meeting*, Indianapolis, Indiana.
- Baker, L.*, Aggarwal, A., **Chávez-Dorado, J.**, Garrey, I., and DiBenedetto, M. (2022). Buoyant, Non-Spherical Plastic Particles in Turbulent Wind-Driven Waves. Oral Presentation: *American Physical Society Division of Fluid Dynamics Meeting*, Indianapolis, Indiana.
- Baker, L.*, Aggarwal, A., **Chávez-Dorado, J.**, Garrey, I., and DiBenedetto, M. (2022). Buoyant, Non-Spherical Plastic Particles in Turbulent Wind-Driven Waves. Oral Presentation: *American Geophysical Union Fall Meeting*, Chicago, Illinois.
- Baker, L.*, Aggarwal, A., **Chávez-Dorado, J.**, Garrey, I., and DiBenedetto, M. (2022). Buoyant, Non-Spherical Plastic Particles in Turbulent Wind-Driven Waves. Oral Presentation: *Atmospheres, Oceans, Earths—Unifying perspectives on geophysical and environmental multiphase flows, KITP*, Santa Barbara, California.
- **Chávez-Dorado, J.*** and Johnson, B. (2021). Volumetric Discharge Measurements in an Open Channel Employing Surface Particle Image Velocimetry. Poster: 14th International Surface Particle Image Velocimetry Symposium, Chicago, Illinois.
- **Chávez-Dorado, J.*** and Johnson, B. (2020). Volumetric flow rate measurement via surface imaging techniques. *American Geophysical Union Meeting*. Poster: Virtual conference.
- Hernandez, O., **Chávez-Dorado, J.***, Escalante, J., Huarachi, D., Saravia, N., Vedia, M., and Viamonte, D. (2016). Self-priming siphon use for the generation of electric energy. Poster: *Il National Science and Technology Fair*, Sucre, Bolivia.
- Hernandez, O., **Chávez-Dorado, J.***, Escalante, J., Huarachi, D., Saravia, N., Vedia, M., and Viamonte, D. (2015). Self-priming siphon use for the generation of electric energy. Poster: *National Congress of Renewable Energies*, Cochabamba, Bolivia.

Teaching Experience

Winter

2023

Incompressible Flows (ME 507), Teaching Assistant

Winter 2022

Fluid Mechanics (ME 333), Teaching Assistant

Outreach & Professional Development _____

SERVICE AND OUTREACH

2022 United Way of King County, Tax Preparer

2020 **Foundation Communities**, Tax Preparer

2016 - 2018 Tu Ciencia Joven, Technology Organizer

2016 - 2017 Flying Doctors of America, Spanish - English Interpreter

PROFESSIONAL MEMBERSHIPS

American Physical Society

American Geophysical Union

Seattle, Washington, USA Austin, Texas, USA Santa Cruz, Bolivia

Santa Cruz, Bolivia

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