

# DAREN A. WATSON

Fulbright Scholar | Prime Minister's National Award for Excellence | Tau Beta Pi Engineering Honor Society

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## EDUCATION


### University of Central Florida

Florida, United States of America

Ph.D. Doctor of Philosophy in Mechanical Engineering, August 2017 – December 2020

 Activities: American Society of Mechanical Engineers, Fluids and Structures Laboratory

M.S. Master of Science in Mechanical Engineering, August 2017 – December 2019

 Activities: Tau Beta Pi Engineering Honor Society, Fulbright Graduate Scholarship, GPA: 3.4

### University of the West Indies

Kingston, Jamaica

M.Phil. Master of Philosophy in Physics, September 2013 – January 2016

 Activities: Alternative Energy Research Group, UWI Graduate Scholarship

B.S. Bachelor of Science in Environmental Physics and Mathematics, September 2010 – July 2013

 Activities: Alternative Energy Research Group, Material Science Research Group, GPA: 4.0

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## APPOINTMENTS

### Florida Polytechnic University

Florida, United States of America

Assistant Professor, January 2021 – Present

Accomplishments: Executed a comprehensive curriculum geared towards educating a semesterly cohort of mechanical engineering students with most achieving their academic and professional goals.

### University of Central Florida

Florida, United States of America

Postdoctoral Research Associate, October 2020 – December 2020

Accomplishments: Conceptualized, designed, implemented, and managed various incompressible fluid–flow experiments and projects at the Fluids and Structures Lab. Principal Investigator: Andrew Dickerson.

Graduate Research Assistant, August 2017 – September 2020

Accomplishments: Conceptualized, designed, implemented, and managed various incompressible fluid–flow experiments and projects at the Fluids and Structures Lab. Principal Investigator: Andrew Dickerson.

### University of the West Indies

Kingston, Jamaica

Instructor, August 2015 – July 2017

Accomplishments: Executed a comprehensive curriculum geared towards educating a semesterly cohort of physics undergraduate students with most achieving their academic and professional goals.

Adjunct Assistant Lecturer, September 2014 – May 2015

Accomplishments: Executed a comprehensive curriculum geared towards educating a semesterly cohort of engineering undergraduate students with most achieving their academic and professional goals.

Adjunct Tutor, September 2013 – May 2014

Accomplishments: Enhanced course learning outcomes of physics undergraduate students by providing supplemental lessons and interventions throughout the semester.

**A. Journal Articles**

1. **Watson, D. A.**, Anzola, S., Zeas, F. A., Smith, K. B., and Cruz, A. A. [2024] "Compound cavity formation and splash crown suppression by water entry through proximally adjacent polystyrene beads". *Physics of Fluids*. Volume 36, Issue 9, [https://doi:10.1063/5.0226769](https://doi.org/10.1063/5.0226769), September 25, 2024.
2. **Watson, D. A.**, Thornton, M. R., Khan, H. A., Diamco, R. C., Aydin D. Y., and Dickerson, A. K. [2024] "Water striders are impervious to raindrop collision forces and submerged by collapsing craters". *Proceedings of the National Academy of Sciences of the United States of America*, Volume 121, Issue 5, [https://doi:10.1073/pnas.2315667121](https://doi.org/10.1073/pnas.2315667121), January 22, 2024.
3. Artman-Breitung, M., **Watson, D. A.**, Dickerson, A. K. [2021] "Simultaneous impact of twin drops on a semi-infinite liquid target". *Physics of Fluids*, Volume 33, Issue 10, [https://doi:10.1063/5.0067442](https://doi.org/10.1063/5.0067442), October 12, 2021.
4. **Watson, D. A.**, Bom, M. J., Weinberg, P. M., Souchik, J. C., and Dickerson, A. K. [2021] "Water entry dynamics of spheres with heterogeneous wetting properties". *Physical Review Fluids*, Volume 6, Issue 4, [https://doi:10.1103/physrevfluids.6.044003](https://doi.org/10.1103/physrevfluids.6.044003), April 21, 2021.
5. **Watson, D. A.**, Souchik, J. C., Weinberg, P. M., Bom, M. J., and Dickerson, A. K. [2020] "Making a splash with fabrics in hydrophilic sphere entry". *Journal of Fluids and Structures*, Volume 94, 102907, [https://doi:10.1016/j.jfluidstructs.2020.102907](https://doi.org/10.1016/j.jfluidstructs.2020.102907), March 12, 2020.
6. **Watson, D. A.**, Stephen, J. L., and Dickerson, A. K. [2019] "Impacts of free-falling spheres onto a deep liquid pool with altered fluid and impactor surface conditions". *Journal of Visualized Experiments*, Issue 144, e59300, [https://doi:10.3791/59300](https://doi.org/10.3791/59300), February 17, 2019.
7. **Watson, D. A.**, Stephen, J. L., and Dickerson, A. K. [2018] "Jet amplification and cavity formation induced by penetrable fabrics in hydrophilic sphere entry". *Physics of Fluids*, Volume 30, Issue 8, [https://doi:10.1063/1.5036655](https://doi.org/10.1063/1.5036655), August 14, 2018.
8. **Watson, D. A.**, Binnie, Y., Duncan, K. L., Dorville, J. F. [2017] "Photurgen: The open-source software for the analysis and design of hybrid solar wind energy systems in the Caribbean region: An introduction to its development policy". *Energy Reports*, Volume 3, [https://doi:10.1016/j.egyr.2017.03.001](https://doi.org/10.1016/j.egyr.2017.03.001), April 18, 2017.

**B. Manuscripts In-Preparation**

1. **Watson, D. A.**, Joseph, Z. C., and Vidana-Fuentes, D. A. [-] "Water entry dynamics of hydrophobic spheres traversing semi-infinite cylindrical pipes".

**C. Conference Papers**

1. Alam, E., Smith, N., **Watson, D.**, Hassan, T., and Neupane, K., [2020] "Early screening of DDH using svm classification". 2019 SoutheastCon, [https://doi:10.1109/SoutheastCon42311.2019.9020565](https://doi.org/10.1109/SoutheastCon42311.2019.9020565), March 5, 2020.

**D. Conference Presentations**

1. Anzola, S., Zeas, F. A., Smith, K. B., Cruz, A. A., and **Watson, D. A.** [2025] "Compound cavity formation and splash crown suppression by water entry through proximally adjacent polystyrene beads". Presented at

the Florida Undergraduate Research Conference, February 14 – 15, 2025, Tampa, Florida, United States of America.

2. Vidana–Fuentes, D. A., Joseph, Z. C., Zeas, F. A., Anzola, S., and **Watson, D. A.** [2025] “Fire ants survive raindrop collision forces and dispersed by outspreading drops”. Presented at the Florida Undergraduate Research Conference, February 14 – 15, 2025, Tampa, Florida, United States of America.
3. Joseph, Z. C., Vidana–Fuentes, D. A., and **Watson, D. A.** [2025] “Water entry dynamics of hydrophobic spheres through cylindrical pipes”. Presented at the Florida Undergraduate Research Conference, February 14 – 15, 2025, Tampa, Florida, United States of America.
4. Anzola, S., Zeas, F. A., Smith, K. B., Cruz, A. A., and **Watson, D. A.** [2024] “Compound cavity formation and splash crown suppression by water entry through proximally adjacent polystyrene beads”. Presented at the American Physical Society 77<sup>th</sup> Annual Meeting of the APS Division of Fluid Dynamics, November 24 – 26, 2024, Salt Lake City, Utah, United States of America. Student Poster Award Winner.
5. Vidana–Fuentes, D. A., Joseph, Z. C., Zeas, F. A., Anzola, S., and **Watson, D. A.** [2024] “Fire ants survive raindrop collision forces and dispersed by outspreading drops”. Presented at the American Physical Society 77<sup>th</sup> Annual Meeting of the APS Division of Fluid Dynamics, November 24 – 26, 2024, Salt Lake City, Utah, United States of America.
6. Cruz, A. A., Smith, K. B., and **Watson, D. A.** [2023] “Water entry dynamics of hydrophobic spheres near floating debris on a deep liquid pool”. Presented at the Florida Undergraduate Research Conference, February 17 – 18, 2023, Miami, Florida, United States of America.
7. Cruz, A. A., Smith, K. B., and **Watson, D. A.** [2022] “Water entry dynamics of hydrophobic spheres near floating debris on a deep liquid pool”. Presented at the American Physical Society 75<sup>th</sup> Annual Meeting of the APS Division of Fluid Dynamics, November 20 – 22, 2022, Indianapolis, Indiana, United States of America.
8. Smith, K. B., Cruz, A. A., and **Watson, D. A.** [2022] “Water entry dynamics of hydrophilic spheres through particle-laden free surfaces”. Presented at the American Physical Society 75<sup>th</sup> Annual Meeting of the Division of Fluid Dynamics, November 20 – 22, 2022, Indianapolis, Indiana, United States of America.
9. **Watson, D. A.** and Dickerson, A. K. [2021] “Life on stormy seas: water striders are impervious to raindrop impacts”. Presented at the American Physical Society 74<sup>th</sup> Annual Meeting of the Division of Fluid Dynamics, November 21 – 23, 2021, Phoenix, Arizona, United States of America.
10. Dickerson, A. K., Artman–Breitung, M., and **Watson, D. A.** [2021] “Twin drop impact on a deep liquid”. Presented at the American Physical Society 74<sup>th</sup> Annual Meeting of the Division of Fluid Dynamics, November 21 – 23, 2021, Phoenix, Arizona, United States of America.
11. **Watson, D. A.**, Bom, M. J., Souchik, J. C., and Dickerson, A. K. [2019] “Underwater acrobatics of partially coated spheres”. Presented at the American Physical Society 72<sup>nd</sup> Annual Meeting of the Division of Fluid Dynamics, November 23 – 26, 2019, Seattle, Washington, United States of America.
12. **Watson, D. A.**, Souchik, J. C., Bom, M. J., and Dickerson, A. K. [2019] “Water entry of hydrophilic spheres through fabric–fluid interfaces”. Presented at the American Physical Society 72<sup>nd</sup> Annual Meeting of the Division of Fluid Dynamics, November 23 – 26, 2019, Seattle, Washington, United States of America.
13. Alam, E., Smith, N., **Watson, D. A.**, Hassan, T., and Neupane, K., [2019] “Early screening of DDH using svm classification”. Presented at the IEEE SoutheastCon 2019, April 11 – 14, 2019, Huntsville, Alabama, United States of America.

14. **Watson, D. A.**, Khan, H. A., DiAmco, R. C., and Dickerson, A. K. [2019] “On the survival of water striders during raindrop impacts”. Presented at the Society for Integrative & Comparative Biology Annual Meeting, January 3 – 7, 2019, Tampa, Florida, United States of America.

## **E. Research Symposia**

1. Anzola, S. and **Watson, D. A.** [2024] “Compound cavity formation and splash crown suppression by water entry through proximally adjacent polystyrene beads”. Presented at the Mechanical Engineering Forum, November 18, 2024, Florida Polytechnic University, Florida, United States of America.
2. Zeas, F. A. and **Watson, D. A.** [2024] “Fire ants survive raindrop collision forces and dispersed by outspreading drops”. Presented at the Mechanical Engineering Forum, November 18, 2024, Florida Polytechnic University, Florida, United States of America.
3. Joseph, Z. C. and **Watson, D. A.** [2024] “Water entry dynamics of hydrophobic spheres through cylindrical pipes”. Presented at the Mechanical Engineering Forum, November 18, 2024, Florida Polytechnic University, Florida, United States of America.
4. **Watson, D. A.**, DiAmco, R. C., Khan, H. A., and Dickerson, A. K. [2019] “Survivability of water striders during raindrop collisions”. Presented at the 16<sup>th</sup> Annual Graduate Research Forum, April 5, 2019, University of Central Florida, Florida, United States of America.
5. Bom, M. J., Souchik, J. C., **Watson, D. A.**, and Dickerson, A. K. [2019] “Vertical impacts of chemically heterogeneous spheres on a deep liquid pool”. Presented at the Showcase of Undergraduate Research Excellence, April 4, 2019, University of Central Florida, Florida, United States of America.
6. Souchik, J. C., Bom, M. J., **Watson, D. A.**, and Dickerson, A. K. [2019] “Vertical impacts of free-falling hydrophilic spheres onto stratified fluid surfaces”. Presented at the Showcase of Undergraduate Research Excellence, April 4, 2019, University of Central Florida, Florida, United States of America.
7. Stephen, J. L., **Watson, D. A.**, and Dickerson, A. K. [2018] “Splash regulation of vertical impacts on a liquid surface by alteration of surface conditions”. Presented at the Showcase of Undergraduate Research Excellence, April 4, 2018, University of Central Florida, Florida, United States of America.
8. **Watson, D. A.**, Binnie, Y., Duncan, K. L., Dorville, J. F. [2017] “Photurgen: The open-source software for the analysis and design of hybrid solar wind energy systems in the Caribbean region”. Presented at the Annual Research Day Symposium, February 1 – 3, 2017, University of the West Indies, Kingston, Jamaica.
9. **Watson, D. A.**, Dorville, J. F., and Duncan, K. L. [2015] “First experimentation of Photurgen: An optimization and management software for hybrid renewable energy systems”. Presented at the Faculty of Science and Technology’s 10<sup>th</sup> Biennial Conference, June 8 – 9, 2015, University of the West Indies, Kingston, Jamaica.

## **F. Graduate Theses**

1. Watson, D. A. [2020] “Interfacial properties modulate water entry dynamics for spherical projectiles”. Doctor of Philosophy. University of Central Florida, Florida, United States of America.
2. Watson, D. A. [2016] “Realization of an open-source software of computation for the optimization of hybrid renewable energy systems: application in the Caribbean region”. Master of Philosophy. University of the West Indies, Kingston, Jamaica.

## **G. Invited Talks**

1. Water entry dynamics of spherical projectiles with surface debris. Presented at the Mechanical Engineering Graduate Seminar, February 13, 2023, Florida Polytechnic University, Florida, United States of America.
2. Water entry dynamics of spherical projectiles. Presented at the Physics Colloquium Series, November 18, 2021, University of the West Indies, Kingston, Jamaica.
3. Rainfall impacts on water striders. Presented to the Locomotion and Design in Nature undergraduate class, February 16, 2021, University of Central Florida, Florida, United States of America.
4. Duality of STEM: The Scientist and the Engineer. Presented at the Undergraduate Career Day, February 9, 2021, Florida Polytechnic University, Florida, United States of America.
5. Being successful in Physics. Presented at the Undergraduate Career Seminar, November 17, 2021, University of the West Indies, Kingston, Jamaica.

## **H. Funded Projects**

1. Contributor, [2020 – 2021] “CAREER: Tuning liquid jet and splash dynamics by deformable and heterogeneous boundaries (Award #1941341)”. Principal Investigator: Andrew Dickerson. National Science Foundation, United States of America.

Project Contributions: Experimental design and execution, data analysis, manuscript cultivation, manuscript editing, model generation, and undergraduate mentoring.

2. Contributor, [2013 – 2015] “A feasibility study of renewable energy production in Jamaican communities”. Principal Investigators: Keith Duncan and Jean-Francois Dorville. New Initiative Grant, University of the West Indies, Jamaica.

Project Contributions: Experimental design and execution, data analysis, manuscript cultivation, manuscript editing, and software development.

## **I. Media Coverage**

1. Florida Polytechnic professor makes groundbreaking discovery with water-walking insects. Published by Spectrum News’ Bay News 9 on February 13, 2025.
2. FST alum ground-breaking research on water-walking insects published by one of the world’s top multidisciplinary scientific journals, featured by major international media houses. Published by The Faculty of Science and Technology, University of the West Indies on January 16, 2025.
3. Florida Poly professor uncovers secrets of water-walking insects’ survival. Published in Florida Poly News on January 8, 2025.
4. How water striders manage raindrops. Published in Northern Woodlands on August 19, 2024.
5. Water striders weather the storm. Published in Yale Scientific on May 10, 2024.
6. This is how water spiders resist the rain. Published in Science & Vie Magazine on April 1, 2024.
7. Surviving rainfall. Published in FYFD on March 28, 2024.
8. Rainproof water striders. Published in American Physical Society on February 27, 2024.

9. Water-bombed insects and carrots that curl. Published in Chemical and Engineering News on February 26, 2024.
10. How water spiders resist (or not) raindrops. Published in Le Monde on January 31, 2024.
11. How water striders survive raindrop collisions? Published in Proceedings of the National Academy of Sciences of the United States of America on January 30, 2024.
12. How pond skaters dodge raindrop drownings. Published in The Naked Scientists on January 26, 2024.
13. Retinas reveal future health, and the first cells on Earth. Plus, how do pond skaters dodge raindrops? Published in The Naked Scientists on January 26, 2024.
14. Slow motion shows raindrops hitting insects. Published in ABS-CBN News on January 26, 2024.
15. What happens when raindrops land on insects? Published in Reuters on January 25, 2024.
16. Tiny water-walking bugs provide scientists with insights on how microplastics are pushed underwater. Published in The Conversation on January 22, 2024.
17. Stunning slow-motion videos show how insects survive raindrop collisions. Published in New Scientist on January 22, 2024.
18. The water strider's rain ballet. Published in DW Science on November 25, 2021.
19. Insects resist the rain. Published in EurekAlert on November 16, 2021.
20. New research on hydrophobic insects could improve future of robotics. Published in Florida Poly News on November 4, 2021.
21. Thirty receives Prime Minister's Youth Award. Published in Loop News on December 14, 2020.
22. A penetrable fabric, like toilet paper, affects a projectile's big splash. Published in American Institute of Physics on August 14, 2018.
23. Mona produces four Fulbright scholars. Published in UWIMONA NOW on July 2, 2017.
24. Fulbright awardees 2017-2018 named. Published in Jamaica Observer on July 2, 2017.

## **SERVICE**

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### **A. Professional**

1. Reviewer, Physics of Fluids, American Institute of Physics, United States of America, 2021 – Present
2. Reviewer, Journal of Fluids and Structures, Elsevier, United States of America, 2021 – Present
3. Judge, Senior Design Showcase, November 18 – November 19, 2024, College of Engineering and Computer Science, University of Central Florida, Orlando, Florida, United States of America.
4. Mentor, CECS/CREOL Mentorship Program, University of Central Florida, Orlando, Florida, United States of America. 2023 – 2024

5. Judge, Senior Design Showcase, April 15 – April 16, 2024, College of Engineering and Computer Science, University of Central Florida, Orlando, Florida, United States of America.
6. Judge, Senior Design Showcase, November 27 – November 28, 2023, College of Engineering and Computer Science, University of Central Florida, Orlando, Florida, United States of America.
7. Judge, Senior Design Showcase, April 17 – April 18, 2023, College of Engineering and Computer Science, University of Central Florida, Orlando, Florida, United States of America.
8. Judge, Senior Design Showcase, November 29 – December 2, 2022, College of Engineering and Computer Science, University of Central Florida, Orlando, Florida, United States of America.
9. Judge, Gallery of Fluid Motion, American Physical Society 75<sup>th</sup> Annual Meeting of the APS Division of Fluid Dynamics, November 20 – 22, 2022, Indianapolis, Indiana, United States of America.
10. Chair, Session A23: Microscale Flows: Particles, Drops, Bubbles I, American Physical Society 74<sup>th</sup> Annual Meeting of the APS Division of Fluid Dynamics, November 21 – 23, 2021, Phoenix, Arizona, United States of America.

## **B. Institutional**

1. Mechanical Engineering Representative, Faculty Representative Council, Florida Polytechnic University, Florida, United States of America. Fall 2024 – Present.
2. Faculty Advisor, National Society of Black Engineers, Florida Polytechnic University, Florida, United States of America. Fall 2023 – Present.
3. Committee Member, Admissions Appeals Committee, Florida Polytechnic University, Florida, United States of America. Spring 2024 – Summer 2024.
4. Panelist, Engineering Design Senior Capstone Panel Presentations, April 17 – April 19, 2024, Florida Polytechnic University, Lakeland, Florida, United States of America.
5. Instructor, Fundamentals of Engineering Exam Review, Florida Polytechnic University, Florida, United States of America. Spring 2021 – Spring 2023.
6. Faculty Advisor, Astronomy Club, Florida Polytechnic University, Florida, United States of America. Spring 2023.
7. Committee Member, Faculty Search Committee, Assistant & Associate Professor in Mechanical Engineering, Florida Polytechnic University, Florida, United States of America. Spring 2023.
8. Committee Member, Phoenix Spirit Award Committee, Florida Polytechnic University, Florida, United States of America. Spring 2022.
9. Committee Member, Academic Review Board, Florida Polytechnic University, Florida, United States of America. Spring 2022.
10. Committee Member, Faculty Search Committee, Assistant & Associate Professor in Mechanical Engineering, Florida Polytechnic University, Florida, United States of America. Spring 2022.
11. Committee Member, Faculty Search Committee, Assistant & Associate Professor in Applied Mathematics, Florida Polytechnic University, Florida, United States of America. Fall 2021.

12. Committee Member, Faculty Search Committee, Assistant Professor in Physics, Florida Polytechnic University, Florida, United States of America. Spring 2021.

#### GRADUATE RESEARCH ASSISTANTS

Student	Institution	Journal Articles
Lilly Szorosz	FPU, FA 2025 – Present	-

#### UNDERGRADUATE RESEARCH ASSISTANTS

Student	Institution	Journal Articles
Julia McFadden	FPU, SP 2025 – Present	-
Zamar Joseph	FPU, SP 2024 – Present	-
Sebastian Anzola	FPU, SP 2024 – Present	Physics of Fluids 2024
Freddy Zeas	FPU, SP 2024 – Present	Physics of Fluids 2024
David Vidana-Fuentes	FPU, SP 2024 – SP 2025	-
Korrie Smith	FPU, SP 2022 – SP 2024	Physics of Fluids 2024
Anthony Cruz	FPU, SU 2022 – SP 2023	Physics of Fluids 2024
Mason Thornton	UCF, FA 2019 – SP 2020	Proceedings of the National Academy of Sciences 2024
Madison Weinberg	UCF, SP 2019 – FA 2020	Journal of Fluids & Structures 2020, Phys. Rev. Fluids 2021
Joshua Bom	UCF, FA 2019 – SP 2020	Journal of Fluids & Structures 2020, Phys. Rev. Fluids 2021
Chris Souchik	UCF, FA 2019 – SP 2020	Journal of Fluids & Structures 2020, Phys. Rev. Fluids 2021
Hiba Khan	UCF, FA 2019 – SP 2020	Proceedings of the National Academy of Sciences 2024
Ryan Diamco	UCF, FA 2019 – SP 2020	Proceedings of the National Academy of Sciences 2024
Jeremy Stephen	UCF, FA 2018 – SP 2019	Physics of Fluids 2018, Journal of Vis. Experiments 2019
Yekini Binnie	UWI, FA 2016 – SP 2017	Energy Reports 2017

#### UNDERGRADUATE RESEARCH INTERNS

Student	Institution	Journal Articles
Sabrina Roggero	FPU, SU 2024	-
Gabriella Salas-Sivira	FPU, SU 2024	-
Korrie Smith	FPU, SU 2023	Physics of Fluids 2024
Anthony Cruz	FPU, SU 2022	Physics of Fluids 2024
Cadreeo Hudson	FPU, SU 2021	-

#### TEACHING

Florida Polytechnic University		
EAS 3101	Fundamentals of Aerodynamics <sup>1</sup>	Department of Mechanical Engineering
EGN 1006	Career Design for STEM Disciplines <sup>1</sup>	Department of Mechanical Engineering
EGN 2002C	Engineering Skills and Design II <sup>1</sup>	Department of Mechanical Engineering
EGN 3015C	Mechanical Lab Design I <sup>1</sup>	Department of Mechanical Engineering
EGN 3016C	Mechanical Lab Design II <sup>1</sup>	Department of Mechanical Engineering
EGN 3311	Engineering Mechanics: Statics <sup>1</sup>	Department of Mechanical Engineering
EGN 3321	Engineering Mechanics: Dynamics <sup>1</sup>	Department of Mechanical Engineering
EGN 3343	Engineering Thermodynamics <sup>1</sup>	Department of Mechanical Engineering
EGN 4715	Propulsion and Combustion Systems <sup>1</sup>	Department of Mechanical Engineering



EML 3401	Principles of Turbomachinery <sup>1</sup>	Department of Mechanical Engineering
IDS 1380	Introduction to STEM <sup>1</sup>	Department of Mechanical Engineering
IDS 4941	Professional Experience Internship <sup>1</sup>	Department of Mechanical Engineering

University of Central Florida		
EGN 3343	Thermodynamics	Department of Mechanical and Aerospace Engineering
EML 3701	Fluid Mechanics I	Department of Mechanical and Aerospace Engineering

University of the West Indies		
ECNG 1012	Engineering Thermodynamics <sup>1</sup>	Faculty of Engineering
ELET 3600	Energy System Laboratory <sup>1</sup>	Department of Physics
ELET 3611	Integrating Alternative Energy <sup>1</sup>	Department of Physics
ELNG 1101	Physics for Engineers <sup>1</sup>	Faculty of Engineering
FSCI 6204	Crime Scene Reconstruction <sup>1</sup>	Department of Basic Medical Sciences
PHYS 3681	Wind and Hydro Power <sup>1</sup>	Department of Physics

**Note:** <sup>1</sup> denotes courses taught as the Instructor of Record.

## FUNDING

Grant	Amount	Duration	Funding Agency	Grant Number
Research Grant	\$2000.00	SP 2025	Florida Polytechnic University	GR-25REU8-T2
Research Grant	\$17,330.00	SU 2024	Florida Polytechnic University	GR-24SUMR-DW
Start-Up Package	\$36,739.59	2021 – 2024	Florida Polytechnic University	GR-21FSU1-DW

## AWARDS

Honors	Granting Institution	Country	Year
Prime Minister's National Award for Excellence	Office of the Prime Minister	Jamaica	2020
Fulbright Graduate Scholarship	U.S. Department of State	USA	2017 – 2019
UWI Graduate Scholarship	University of the West Indies	Jamaica	2013 – 2014
Faculty of Science and Technology Dean's List	University of the West Indies	Jamaica	2011 – 2013

**Note:** The Prime Minister's National Award for Excellence is the highest honor bestowed upon a Jamaican below the age of 30 who has achieved eminent national and international distinction in a specified area.

## REFERENCES

Andrew Dickerson, Ph.D.

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Michael Taylor, Ph.D.

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Tadd Truscott, Ph.D.

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