

CHRISTOPHER VEGA SÁNCHEZ



Date of Birth: December 31st 1985, San José, Costa Rica
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EDUCATION

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- 07/2018 – present **School of Chemistry, The University of Sydney, NSW, Australia**
- Ph.D. Candidature: Slippery and drag reducing properties of lubricant-infused surfaces under laminar flows. Supervisor: Prof Chiara Neto
- 10/2011 – 11/2013 **IMTEK, Albert Ludwigs Universität Freiburg, Germany**
- Master Program in Microsystems Engineering: Design and Simulation of Mechanical Systems. Graduated with Rank 1 academic distinction. Supervisor: Prof. Peter Woias
- 02/2004 – 11/2008 **Costa Rica Institute of Technology, Cartago, Costa Rica**
- Bachelor in Electromechanical Engineering. Graduated with distinction.

WORK EXPERIENCE

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- 2008 – 2018 **Costa Rica Institute of Technology, Cartago, Costa Rica**
- Lecturer and Researcher at the Electromechanical Engineering School.
- 2008 – 2011 **Soluciones de Ingeniería S.A., Cartago, Costa Rica**
- Project Manager in Electromechanical Systems
- Year 2008 **Bridgestone Costa Rica, Heredia, Costa Rica**
- Fieldwork to opt for engineering degree

RESEARCH

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- 2018 – present **Slippery and drag reducing properties of lubricant-infused surfaces under laminar flows**
- Project carried out by the Sydney Nano Institute, The University of Sydney
- 2016 – present **Design and Implementation of a Microfluidic device for Impedance Spectroscopy of Biological Samples**
- Project carried out by the Electronics Engineering School, Costa Rica Institute of Technology
- 2014 – present **eWave: Wave energy converter system**
- Project carried out by the Electromechanical Engineering School, Costa Rica Institute of Technology
- Dec. 2016 **Internship at Birck Nanotechnology Center, Purdue University, USA.**
- Training in microPIV with Prof. Steve Wereley, Microfluidics research group.

PUBLICATIONS

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- 2020 Vega, Peppou, Zhu, Neto; *Drag reduction and boundary slip at silicone oil-water interfaces* submitted
- 2016 J.J. Rojas, C. Vega, S. Corrales, P. Valverde, and D. Berrocal. *Low Cost Fabrication of a Piezoelectric Actuated Valveless Micropump*. 2016. LACCEI, San José, Costa Rica.
- 2015 F. Rojas, C. Vega, V.I. Vargas, M.F. Mata, B. Chine and L. Barillas. *Plasma gasification in Costa Rica: Analysis and research of technology*, 2015 Gasification Technologies Conference (GTC 2015), 11-14 October, Colorado Springs, Colorado, USA.

DISTINCTIONS AND AWARDS

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- 2019 University of Sydney Nano Institute Student Ambassador, The University of Sydney
- 2018 Winner Sydney Nano Institute Image of the year, The University of Sydney
- 2013 Costa Rican Ministry of Science and Technology Scholarship for PhD studies
- 2013 Master of Science with Rank 1 Distinction, Albert Ludwigs Universität Freiburg