CURRICULUM VITAE

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EDUCATION:

B.S. Mechanical Engineering, The University of Vermont, 1999
Martha's Vineyard Regional High School, 1995

PROFESSIONAL EXPERIENCE:

Research Engineer, WHOI, AOPE Department, 2009-present
Engineer II, WHOI, AOPE Department, 2002-2009
Engineer I, WHOI, AOPE Department, 2000-2002
Visiting Investigator, WHOI, AOPE Department, 1999-2000
Polymer Products Manufacturing Testing Team Summer Intern, W.L. Gore & Associates, Elkton, MD., Summer 1998

AWARDS:

Vineyard Vision Fellowship Award, After-School STEM program, 2019-2020
NASA Reduced Gravity Student Flight Opportunities Program, March 1999
SWE Technical Paper Competition, New England Runner-up, April 1999
Passed Fundamentals of Engineering (FE) Examination, April 1999

PROFESSIONAL AFFILIATIONS:

IEEE/WIE, Member 2017-2024
IEEE/OES, Member 2020-2024
Society of Women Engineers, Member 2013 - 2017
Engineers Without Borders, Member 2013-2015

RESEARCH INTERESTS:

Design and testing for oceanographic research systems including surface buoys, mooring components, and crewed and uncrewed underwater vehicles.

PROFESSIONAL ACTIVITIES:

WHOI :

Committee for Diversity, Equity, and Inclusion: Undergraduate Recruitment Working Group, 2024-2025
Defined Contribution Retirement Plan Committee, 2014
AOPE Department Chair Search Committee, 2005

Outside WHOI:

ACE MV Marine Science Advisory Committee, 2021-2022

SeaMATE Triggerfish ROV, Summer STEM Camp Instructor, August 2018 & 2019
SeaPerch ROV, Summer STEM Camp Instructor, July 2017 & August 2018, 2019 & 2021
Sail Martha's Vineyard, Board Member, 2015 - 2019
Engineers Without Borders, Professional Mentor, Greenhouse Rehabilitation/Monitoring Project, Peru, August 2013

PARTICIPATION IN EDUCATION AT WHOI:

Autodesk Inventor Training: Training courses held at WHOI; 2004, 2005, 2006, 2007, 2008, 2009,2023
SolidWorks Training: Training course held at WHOI; 2009
Autodesk Mechanical Desktop Training: Training courses held at WHOI; 2000, 2001, 2002, 2003, 2004
Introduction to Oceanography: 2001

SUPERVISION/MENTORING AT WHOI:

Chris Maciel –Volunteer, 2018
Willa Vigneault – High School Work Study Volunteer (January – June 2017)
Ellis Carroll – Volunteer (summer 2013)
Clea Baumhofer – Engineering Assistant I (summer 2012)
Peter Osswald – Engineering Assistant I (summer 2011)
Anna Belle Hughes – Part-time Helper (summer 2011, 2012)
Alex Kavanaugh – Engineering Assistant I (summer 2010, 2011)
William Hopewell – Engineering Assistant I (summer 2010)
John Moakley – Engineering Assistant I (2009, summer 2010)
Eric Schmitt – Engineering Assistant I (summers 2008, 2009)

CRUISE PARTICIPATION:

September 7, 2009- September 10, 2009: R/V Atlantis Astoria, OR – San Francisco, CA. Alvin Transit Cruise – Observed Alvin Dive Operations

November 2004: R/V Cape Hatteras Puerto Rico – Puerto Rico. SeaBED AUV Coral Habitat Mapping - Assisted in daily operations of AUV

December 2003: R/V Oceanus; Woods Hole – Woods Hole. Assisted with Mooring Operations

July 22, 2003 – August 3, 2003: R/V Atlantis; Woods Hole – Woods Hole. Assisted with Alvin Operations

Participated in more than 10 Tioga Cruises

PRESENTED TALKS:

January 2015	Presenter: Sail Martha's Vineyard Winter Talk Series: *WHOI's Deep Submergence Underwater Vehicles*

October 2014 Presenter: Rotary Club Martha's Vineyard: *Alvin Upgrade*
July 2014 Presenter: WHOI Science Made Public: *Alvin Gets a Makeover*

J. Fouquet, I. Izrailit, M. Carroll, M. Minksy, J. Fram, K. Politano, M. Palanza, An Ultraviolet Illuminator to Prevent Biofouling of Oceanographic Sensors with Elongated Geometries, Marine Technology Society Buoy Workshop Abstract and Presentation by J. Fouquet, May 2024.

Potty GR, Miller JH, Baker J, Peters D, Carroll MM, Butler A. Interface Wave Sediment Profiler: A measurement system for shear wave speed. OCEANS 2016 MTS/IEEE Monterey, CA

James Irish, Megan Carroll, Robin Singer, Art Newhall, Walter Paul, Craig Johnson, Nick Witzell, Glen Rice, Dave Fredericksson, "*Instrumentation for Open Ocean Aquaculture Monitoring,* W.H.O.I. Technical Report, October 2001.