

BRANDON MONTEMURO

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EDUCATION

FALL 2013-DEGREE EXPECTED MAY 2020

PH.D. IN INTEGRATED APPLIED MATHEMATICS, UNIVERSITY OF NEW HAMPSHIRE

GPA 3.87/4.00

FALL 2006-SPRING 2010

B.S. IN AEROSPACE ENGINEERING, PENNSYLVANIA STATE UNIVERSITY

Minors in Mathematics and Engineering Leadership Development

GPA 3.78/4.00

EXPERIENCE

- Fall 2018 instructor for ME 503 – Thermodynamics at University of New Hampshire

PUBLICATIONS

Published:

- Chini G, Montemuro B, White C, Klewicki J. A self-sustaining process model of inertial layer dynamics in high Reynolds number turbulent wall flows, *Philosophical Transactions of the Royal Society A*., **375**, 20160090, 2017

Submitted

- Montemuro B, White C, Klewicki J, Chini G. A self-sustaining process theory for uniform momentum zones and internal shear layers in high Reynolds number shear flows, *Journal of Fluid Mechanics*, (2019, submitted)

Works in Progress

- Kellam C, Montemuro B, Chini G, Oishi J, Tobias S. Generalised quasilinear simulation of plane Poiseuille flow

DISSERTATION

An asymptotic self-sustaining process theory for uniform momentum zones and internal interfaces in unbounded Couette flow

PRESENTATIONS

- American Physical Society Division of Fluid Dynamics 2018
 - A Self-Sustaining Process Theory for Uniform Momentum Zones and Internal Layers in Wall Turbulence
- UNH Graduate Research Conference 2018
 - Viscous Versus Inviscid Exact Coherent States in High Reynolds Number Wall Flows
- American Physical Society Division of Fluid Dynamics 2017
 - Viscous Versus Inviscid Exact Coherent States in High Reynolds Number Wall Flows
- American Physical Society Division of Fluid Dynamics 2016
 - A Theory for Coupled Uniform Momentum Zones and Vortical Fissures in Turbulent Wall Flows