

Drummond E. Biles

Department of Mechanical Engineering University of New Hampshire
Kingsbury Hall, W101, 33 Academic Way, Durham, NH 03824
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Academic background

University of New Hampshire, Durham, NH

Ph.D. Student -Mechanical Engineering - Topic:*Thermal Transport Dynamics in Non-Equilibrium Fluid Flow*

GPA 3.72/4.00. Graduation Date: May 2019

University of New Hampshire, Durham, NH

B.S. Cum Laude -Mechanical Engineering

GPA 3.35/4.00. Graduation Date: May 2013

Experience

University of New Hampshire, Durham, NH

Computer Aided Engineering, Teaching Assistant for Yannis Korkolis, Fall 2016

Heat Transfer, Teaching Assistant for John McHugh, Spring 2016

Computer Aided Engineering, Teaching Assistant for Yannis Korkolis, Fall 2015

Experimental Measurement and Modelling, Teaching Assistant for May-Win Thein, Fall 2014

Experimental Measurement and Modelling, Teaching Assistant for May-Win Thein, Fall 2013

Design Engineer/ Machinist, Materials & Manufacturing Research Group. (Supervisor: Yannis Korkolis) Summer 2013

Design Engineer/Machinist, Magnetosphere Ionosphere Research Lab. (Supervisor: Mark Lessard) Fall 2009- Spring 2013

A & P University Centre in Svalbard , Svalbard, Norway

Researcher,Kjell Henriksen Observatory (Supervisor:Fred Sigernes), Summer 2012

Publications/Conference Proceedings

- Biles, Drummond, Lessard Marc, Sigernes Fred *Development of an Optical Calibration Facility at an Auroral Research Station*. IROP and SURF International Symposium , Durham, NH. 2012.
- Biles, Drummond, Alireza Ebadi, Allen Ma, and Chris White. *Design and Validation of a Constant Wall Temperature Plate*. Proc. of American Physical Society, Division of Fluid Dynamics, California, San Francisco. Vol. 59. N.p.: n.p., 2014.
- Sigernes, Fred, SE Holmen, D. Biles, H. Bjoklund, X. Chen, M. Dyrland, DA Lorentzen, L. Baddeley, T. Trondsen, U. Brandstrom, E. Trondsen, B. Lybekk, J. Moen, S. Chernouss, and CS Deehr. *Auroral All-sky Camera Calibration*.

Geoscientific Instrumentation, Methods and Data Systems 3.2 (2014): 241-245.

- Biles, Drummond, Alireza Ebadi, Allen Ma, and Chris White, *Design and Construction of a Temperature Plate*. University of New Hampshire Annual Graduate Research Conference, Durham,NH, 2015.
- Biles, Drummond, Alireza Ebadi, Allen Ma, and Chris White. *Construction of a Non- equilibrium Thermal Boundary Layer Facility*. Proc. of American Physical Society, Division of Fluid Dynamics, Boston, MA. Vol. 60. N.p.: n.p., 2015.
- Biles, Drummond, Alireza Ebadi, and Chris White. *Experimental measurements of a non-equilibrium thermal boundary layer flow*. Proc. of American Physical Society, Division of Fluid Dynamics, Portland, OR. Vol. 61. N.p.: n.p., 2016.

Previous awards

Kenneth J. Higson Scholarship, Fall 2011 - Spring 2012

UNH International Research Opportunity Program, Summer 2012

Dorothy Kittredge Memorial Fund for community outreach and volunteerism, Fall 2016

Volunteering

UNH STEMbassador Outreach Program, Fall 2015 - Present

UNH CEPS Tour guide, Fall 2015 - Present

UNH Graduate Student Senate, Senator, Fall 2015 - Spring 2016

FIRST Robotics League, Spring 2016

UNH Graduate Student Senate, President, Fall 2016 - Spring 2017