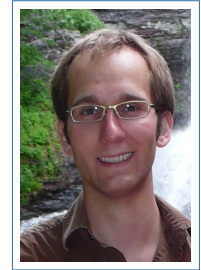


Brandon J. Dillon

Curriculum Vitae

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Education

- 2013–TBD **Doctor of Philosophy**, *Virginia Tech*, Blacksburg, VA, *GPA: 3.37*.
Civil Engineering - Certificate: Future Professoriate
- 2010–2013 **Master of Science**, *Virginia Tech*, Blacksburg, VA, *GPA: 3.44*.
Mechanical Engineering
- 2004–2007 **Bachelor of Science**, *Virginia Tech*, Blacksburg, VA, *GPA: 3.72*.
Mechanical Engineering - Minor: Economics

Experience

Professional

- 2018 **Charles E. Via Teaching Fellow**, *Virginia Tech*, Blacksburg, VA.
 - Instructor of Record for CEE 3304 - "Fluid Mechanics"
- 2010–pres. **Graduate Research Assistant**, *Virginia Tech Baker Hydraulics Lab*, Blacksburg, VA.
Design, Fabrication, and Operation of Scientific Instrumentation in Support of Waterway Erosion Control Research Conducted by the Baker Environmental Hydraulics Lab.
 - Fellow, Charles E. Via Teaching Fellowship
 - Fellow, G.V. Loganathan Memorial Graduate Fellowship
 - Recipient, Virginia Lakes and Watersheds Association's Leo Bourassa Scholarship
- 2014–2017 **Adjunct Faculty**, *New River Community College*, Dublin, VA.
 - Instructor of Record for EGR 115 - "Engineering Graphics"
 - Instructor of Record for EGR 120 - "Introduction to Engineering".
 - Workforce Development Trainer for Geometric Dimensioning and Tolerancing (ASME Y14.5), Blueprint Reading, and Electrical Safety
 - Total Contact Hours: 54
- 2008–2010 **Research Intern**, *Crutchfield, Inc.*, Charlottesville, VA.
Development and Deployment of Loudspeaker Characterization Testing Methods in Anechoic Environments.
 - Utilized RT Linux, Brüel & Kjaer Measurement Equipment, Anechoic Environments
 - Programmed Low-Level C for Signal Processing and Convolution Engine

Practical

- 2008–pres. **Flight Instructor**, *Various*, New River Valley, VA.
Primary, Advanced, and Recurrent Flight Training for Individuals and UAV Programs.
- CFI: ASEL&S, IA, Glider
 - Experimental Authorization: AVL-29
 - FAA High Altitude Physiological Training

Volunteer

- 2011–2014 **Tutor**, *Montgomery County Public Schools*, Christiansburg, VA.
One-on-one Tutoring of At-Risk and Learning Disabled High School Students in Math and Science.

Presentations

An Alternative Hypothesis for the Source of Scatter Found in the Validation of Incipient Motion Criteria,

Brandon Dillon, Kyle Strom,
American Geophysical Union Fall Meeting, December 2018.
Washington, D.C.

Action Minimization Analysis of the Problem of Incipient Motion,

Brandon Dillon, Kyle Strom,
Binghamton Geomorphology Symposium, October 2018.
Syracuse, NY

In Situ Particle Image Velocimetry for Fluvial and Environmental Flows,

Brandon Dillon, Kyle Strom,
World Environmental & Water Resources Congress, June 2018.
Minneapolis, MN

Advances in Field Deployable Instrumented Particles for the Study of Alluvial Transport Mechanisms,

Brandon Dillon, Kyle Strom,
American Geophysical Union Fall Meeting, December 2017.
New Orleans, LA

The 'Electric' Pascal: Absolute and Dynamic Calibration Techniques,

B.J. Dillon,
MS Thesis, September 2013.
Blacksburg, VA

Measurements of particle movement and local turbulent flow characteristics at incipient conditions,

Celik A. O., Valyrakis M., Dancey C. L., Diplas P, Akar T., Dillon B.,
RiverFlow International Conference on Fluvial Hydraulics, September 2008.
Izmir, Turkey

Analysis of initiation of bed material motion under turbulent flows,
Celik A. O., Dancey C. L., Diplas P., Valyrakis M., Dillon, B.,
ASCE 18th Engineering Mechanics Division Conference, June 2007.
Blacksburg, VA

Slagging Properties of Poultry Litter Ash During Combustion,
B.J. Dillon, S-S. Kim, F.A. Agblevor,
The Deans' Forum on Energy Security and Sustainability, October 2006.
Blacksburg, VA

Awards and Honors

- 2018 **Fellow**, *Virginia Tech's Charles E. Via Teaching Fellowship.*
- 2018 **Fellow**, *Virginia Tech's G.V. Loganathan Memorial Graduate Fellowship.*
- 2018 **Recipient**, *Virginia Lakes and Watersheds Association's Leo Bourassa Scholarship.*
- 2016 **Finalist**, *Goddard Space Flight Center's STEM Takes Flight Faculty Development.*
- 2015 **Finalist**, *Virginia Community College System's Excellence in Education Awards.*
- 2015 **Best New Entrant**, *AHS/Boeing's 32nd Student Design Competition – Faculty Advisor.*