

# GORDON TAUB

---

**Home:** 20033 Bagley Drive North  
Apartment X-101  
Shoreline WA 98133  
Phone: (352) 328-2139  
Email: gtaub@everettcc.edu

**Current Position:** Engineering Instructor  
Everett Community College  
2000 Tower Street  
Everett, WA 98201-1390

## ACADEMIC EXPERIENCE

---

Engineering Instructor  
(2015-Current)

Everett Community College  
Department Head: Eric Davishahl  
Courses: Dynamics, Thermodynamics, Introduction to Numerical Methods, Computer Science I with C++ (CS131), and Computer Science with Java (CS143)

Adjunct Professor of Mathematics  
(2014-2015)

Santa Fe College (located in Gainesville Florida)  
Department Chair: Dr. Kathleen Arnold  
Courses: Intermediate Algebra and Survey of Calculus for Business Majors.

Teaching Assistant (2008-2009)

University of Florida  
Course: Intermediate Engineering Analysis (Prof. Mai, R)  
Duties: Holding office hours, proctoring exams and grading papers.  
  
Course: Introduction to Thermodynamics (Prof. Fan, H.)  
Duties: Holding office hours, proctoring exams and grading papers.  
Lectured for Professor on occasion when he was absent

Teaching Assistant (2007-2008)

University of Washington  
Course: Introduction to Scientific Computing (Prof. Kutz, N.)  
Duties: Held office in computer lab 10 hours a week helping students with MATLAB code and basic numerical techniques.  
  
Course: Freshman Physics Lab (Fluids and Electromagnetism)  
Duties: Instructed weekly Physics Labs 15 hours a week for various professors.

Math Tutor (2006-2007)

Seattle Central Community College  
Duties: Worked 10 hours a week in school's math and science tutoring center. Tutored students on mostly pre-calculus level mathematics.

Engineering Supervisor  
(1995-1997)

Tektronix (Lightworks Video Editing Systems)  
Duties: Led a team of 3 engineers and 2 technicians responsible for pre-sales engineering and maintenance of all Lightworks Video Editing systems in the western United States.

## EDUCATION

---

Post Doctoral (2014)	École Polytechnique Laboratoire d'Hydrodynamique (LadHyX) Principal Investigator: Dr. Sébastien Michelin Project: Hydrodynamic couplings in vibrating arrays of energy harvesters
Doctorate (2013)	University of Florida Mechanical Engineering focusing on fluid dynamics Advisor: Dr. S. Balachander Dissertation: "A Numerical and Experimental Study of Turbulent Single and Multi-Phase Forced Plumes at Moderate Reynolds Numbers."
Masters of Science (2008)	University of Washington Applied Mathematics Advisor: Dr. Randy LaVeque Concentration: Modeling with ordinary and partial differential equations, numerical methods.
Bachelor of Science (2007)	University of Washington Applied Computational and Mathematical Sciences (ACMS) Concentration: Mathematical modeling of mechanical engineering systems.
Bachelor of Arts (1994)	University of Washington Drama Concentration: Lighting and set design

## PUBLICATIONS

---

### **Published Papers**

Taub, G.N., Lee, H., Balachandar, S., and Sherif, S.A., "An examination of the high order statistics of developing jets, lazy and forced plumes at various axial distances from their source." *Journal of Turbulence* 16, (2015)

Taub, G.N., Lee, Hyungoo, S. Balachandar, and S.A. Sherif, "A direct numerical simulation study of higher order statistics in a turbulent round jet", *Phys. Fluids* 25 115102 (2013)

Taub, G.N., Lee, Hyungoo, Balachandar, and S.A. Sherif, "A study of similarity solutions for laminar swirling axisymmetric flows with both buoyancy and initial momentum flux.", *Phys. Fluids* 23 113601 (2011)

### **Conference Papers and Presentations**

Taub\*, G.N., Plourde, F., Balachandar, S., "A Comparison of the Single and Multiphase Turbulent Jets, Pure and Forced Plumes at Moderate Reynolds Numbers" APS Talk (2012)

Taub\*, G.N., Lee, Hyungoo, Balachandar, and S.A. Sherif, "A numerical investigation of swirling turbulent buoyant jets at transient Reynolds Numbers", AIAA Conference paper (2010)

Taub\*, G.N., Lee, Hyungoo, Balachandar, and S.A. Sherif, "A numerical study of swirling buoyant laminar jets at low Reynolds numbers", ASME IMECE Conference paper (2009)

\*Presenter

Continued on next page...

## NON-ACADEMIC WORK EXPERIENCE

---

Owner Operator (2005-2008)	CKO Productions Duties: Ran a small entertainment and video production company that offered karaoke hosting, DJ, video production and post-production services. Specialized in video keying (green screening) effects, and making personalized musical videos of karaoke performers.
Sales and Support (2002-2005)	DVGear Duties: Sales, customer support and training of various computer video editing systems sold by DVGear
Owner Operator (2000-2002)	Montage Memories Duties: Ran a small company which provided video post-production services in the Seattle area.
Assistant Editor (1997)	NBC Studios Sunset Beach (Soap Opera) Duties: Digitized dailies into Lightworks Video Editing System

## FELLOWSHIPS AND AWARDS

---

University of Florida Alumni Fellowship  
Partnership for International Research and Education (NSF grant number OISE-0968313)  
Expert in multiphase flow certification (University of Florida)

## RESEARCH SKILLS

---

Numerical	CFD, finite volume, finite element and spectral methods, DNS, parallel computing with MPI, FORTRAN, C, MATLAB, Maple
Experimental	PIV with experience in both data gathering and post processing of data.
Analytical	Mathematical Modeling, dimensional asymptotic and linear stability analysis
Other Skills	LaTeX, Lyx, Microsoft Office, native English speaker, some French