

Andrew C Smith

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Education

Boston University

Boston, Massachusetts

Master of Arts

Major: Environmental Analysis

GPA: 3.7

Attended August 2000 to May 2002

Degree conferred May 2002

Middlebury College

Middlebury, Vermont

Bachelor of Arts

Major: Environmental Studies

GPA: 3.5

Attended August 1993 to May 1997

Degree conferred May 1997

Experience

Woodstock Union High School

Aug 2016 - Present

Teacher

Woodstock, VT

- Teach AP Computer Science Principles, AP Computer Science A, Computer Programming, and Innovation classes to student in grade 9-12
- Provide additional support for students taking math classes
- Coach Math Team grades 11-12 for Twin State Math League

TomTom

Mar 2011 - Aug 2016

Expert Specifications Engineer

Lebanon, NH

Expert Specifications Engineer, March 2016 - present

Senior Specifications Engineer, April 2012 - March 2016

Specifications Engineer, March 2011 - April 2012

- Product owner for components of the internal quality assurance software in the Maps Unit, assist in long-range planning of the entire software package

- Developed prototype software to detect errors in geographic data
- Developed software specifications, seek out and foster relationships with stakeholders to ensure correct specifications
- Wrote guidelines for reporting and resolving software bugs
- Provided technical support to local and remote users
- Developed and executed database queries and automation scripts for data analysis
- Developed data monitoring tools and visualizations
- Managed a webserver, developed software to setup and maintain dynamic web content
- Developed custom software in support of various documentation projects

TomTom

Mar 2006 - Mar 2011

Team Manager

Lebanon, NH

Team Manager, March 2010 - March 2011

Learning Technology Lead, March 2009 - March 2010

Learning Technology Specialist, December 2007 - March 2009

Trainer, March 2006 - December 2007

- Product owner for all instructional technology, including a Learning Management System, course development software, reporting and evaluation systems, audio and video hardware
- People manager for up to 12 instructors and writers, assigned team projects, assisted in long-range planning and budgeting, served as point of contact for collaboration with teams in other units of the company
- Taught classroom and online courses (duration one hour to three weeks) on various technical topics related to digital mapmaking, including travel to Belgium to teach classroom courses
- Spearheaded the initial adoption of online training and assessments, facilitated experimentation among training teams
- Led teams in development of policies for usage of new technology
- Developed custom online learning tools and training content
- Provided technical support for local and remote employees
- Earned a reputation as a provider of personable support, including invitations to implement internal technology projects for the executive team

Granite State College

Mar 2008 - Jun 2012

Lecturer, Part-Time

Concord, NH

Lecturer, February 2011 - June 2012

Adjunct Faculty, March 2008 - February 2011

- Designed and taught an online undergraduate Earth Science course, one section per year
 - Advised students in self-directed online courses
 - Served as an invited contributor to the College's program for increasing instructor use of educational technology
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Hartford School District

Aug 2004 - Feb 2006

Teacher

White River Junction, VT

- Designed and taught Earth Science and Physical Science courses for grades 9-12
- Earned a grant to purchase astronomy software, integrated online discussion forums in classroom courses, continuously enhanced student resource website

St. Nicholas Catholic School

Sep 2002 - Jun 2004

Teacher

Gig Harbor, WA

- Designed and taught science and math courses for grades 7-8
- Homeroom teacher and advisor for graduating 8th grade classes, organized student retreats and transition program into local high schools
- Built an interactive student resource website
- Sponsor for Chess Club, Destination Imagination Team, and Math Team

National Oceanic and Atmospheric Administration

Jul 2001 - Jul 2002

Research Fellow

Seattle, WA

- Developed a digital map and tracking system for derelict boats and oil spills impacting coral reef ecosystems in U.S. waters
- Established and maintained data sourcing partnerships with state and territorial governments
- Performed spatial data analyses delivered to the US Congress
- Designed and administered a website for public outreach and data collection
- Compiled a digital library of comprehensive science and policy information for field use by oil spill responders
- Assisted in the preparation of a restoration plan for a major pipeline accident
- Represented the office in trips to Guam and Washington DC

Boston University

Sep 2000 - May 2001

Website Administrator, Part-Time

Boston, MA

- Developed and administered an research website for two professors at Boston University's Center for Energy and Environmental Studies

Hillside School

Aug 1999 - Jun 2000

Teacher

Marlborough, MA

- Designed and taught math and geography to 7th grade boys with mild learning disabilities,

- developed curriculum based on on-site farm
- Advised five students; dorm parent for 12 students
- Sponsor for outdoor program and student chorus

Professional Activities

- Volunteer in various educational roles in local community including soccer coach, classroom/library presentations, Destination Imagination leader, Fall 2009-present
- Volunteer ukulele instructor for disabled adults at Spark Community Center, Summer 2016
- Coordinator of multiple school outreach events, job shadow days, and student internships at TomTom, Fall 2007-Spring 2014
- Developer of two online lessons which were included in promotional material for Granite State College, Spring 2012
- Judge for Flat Classroom Project's global student video contest, Spring 2010
- Grant Reviewer for Hewlett-Packard grant programs Technology for Teaching and Innovations in Education, Spring 2008, 2009
- Recipient of the annual Achievement Award for TomTom Training Teams, Summer 2006
- Appointee to the Advisory Board of Science Scope, the magazine for middle school science teachers published by the National Science Teachers Association, Summer 2004 – Spring 2006
- Certified as HQT in Vermont with 7-12 Science endorsement, earned by portfolio-based Peer Review process, Spring 2004
- Featured Teacher in the Tacoma News Tribune's first "Educator Spotlight" column, Winter 2003
- Invited Contributor on Drexel University's MathTools website for technology in math education, Spring 2003
- Awarded two merit scholarships for graduate studies at Boston University, Fall 2000, Fall 2001

Conference Presentations and Authorships

- Presenter of "Detecting Data Quality Problems using QGIS" at the Vermont Center for Geographic Information's Spring Forum, May 2016
- Member of the update group for "Vermont GIS Parcel Data Standard", Spring 2015
- Designer of four maps included in the book "Brigham Young, Pioneer Prophet", published by Harvard University Press, Fall 2012
- Co-presenter of "Mapping a Social Learning Solution Using SharePoint" at the E-Learning Guild's 2-Day Online Forum Incorporating Social Media & Collaboration Into E-Learning, May 2010
- Co-presenter of "Using SharePoint for Informal Learning" at the online conference SharePoint in Corporate Learning, March 2009
- Presenter of "Beyond Cocoa Powder and Vegetable Oil: Using Technology to Simulate Oil Spills" to the National Science Teachers Association Western Area Convention, December 2003
- Co-author of "Developing a Database to Support and Prioritize the Removal of Abandoned Vessels Impacting Coral Resources" published in the Proceedings of the 2003 International Oil Spill Conference, April 2003
- Author of Independent Research paper during graduate studies: "Bias and Uncertainty: Teaching the Controversies of Climate Change with High School Mathematics", May 2002