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EDUCATION

University of Tennessee

Ph.D. Political Science

Focus: American government, public policy, and public administration

Proposed Dissertation: Government and Science: The Importance of Science in Political Discourse

Knoxville, TN

May 2014

Virginia Tech

M.S. Analytical Chemistry

Focus: Spectroscopy, materials characterization

Thesis: Reactions of Chemical Warfare Agent Simulants with Hafnium Oxide Nanoparticles

Blacksburg, VA

December 2006

Washington and Lee University

B.S. Chemistry

Focus: Organic synthesis and characterization

Thesis: Bipyridyl-phosphanes and Pyridylmethanes: Synthesis and Reactivity

Lexington, VA

June 2004

ADDITIONAL EDUCATION

Brookhaven National Laboratory

Nuclear Nonproliferation, Safeguards, and Security in the 21st Century

This three week course for graduate students, supported by the U.S. Department of Energy's Next

Generation Safeguards Initiative, provided an introduction to the nuclear nonproliferation regime and analysis of nonproliferation policies, both in the United States and internationally. We performed critical assessment of current proliferation threats to international security. It also included a hands-on simulation of an IAEA inspection for safeguard purposes, demonstrations and exercises using technologies of international nuclear safeguards for the the detection of radioactive materials, a materials accounting exercise, studies on current policies issues, and lectures by prominent scholars in a variety of fields involved in nuclear nonproliferation.

Upton, NY

June 2013

JOURNAL PUBLICATION

High Trans Selectivity in the Copper Bis(oxazoline) Catalyzed Asymmetric Cyclopropanation of Olefins by (Trimethyl)silyl Diazomethane. *Tetrahedron Letters* **2003**, 44(52), 9287-9290.

CONFERENCE PRESENTATIONS

Peace Science Society

October 2013

Chemical and Biological Weapons Acquisition Determinants: What Makes States More Likely to Acquire Chemical and Biological Weapons

Southern Political Science Association Annual Meeting

January 2012

The Population Ecology of Science-Related Interest Groups
Prestige-Cook Travel Award Winner

American Chemical Society National Meeting

September 2006

Reaction of Dimethyl Methylphosphonate with Hafnium Oxide Nanoparticles

American Chemical Society National Meeting

August 2005

Reactivity of Chemical Warfare Agent Simulants with Hafnium Oxide Nanoparticles

National Conference on Undergraduate Research

April 2004

High *trans* Selectivity in the Asymmetric Cyclopropanation of Olefins by (Trimethylsilyl)diazomethane

WORKING PAPERS

The Population Ecology of Science-Related Interest Groups, submitted to *Interest Groups and Advocacy*

The Specialization of Science-Related Interest Groups Over Time, submitted to the *British Journal of Political Science*

Science as a Democratic Interest Group: The Federal Science Budget and the Party of Congress and the President

Issue Framing and Problem Definition: How Do the Frames Proposed by “Big Oil” and Environmental Groups Align with the Scientific Literature?

What Does the Rulemaking Process Mean for Democracy? Participation in the Rulemaking Process for Yucca Mountain Policy by Interest Groups, Agencies, and Citizens

Trade and Professional Science Associations, Lobbying, and Federal Research Budgets

Gender Workplace Inequality, Maternity Leave, and Social Democratic Parties: Are Parties Failing in Their Gender Equality Goals by Supporting Maternal Support Policies?

Chemical and Biological Weapons Acquisition Determinants: What Makes States More Likely to Acquire Chemical and Biological Weapons

Cross National Perceptions of Corruption – How Individual Attributes Affect national Level Perceptions of Corruption

University lobbying and federal research outlays

TEACHING EXPERIENCE

Political Science 366 – U.S. Foreign Policy (online)

August 2013 – May 2014

University of Tennessee

Knoxville, TN

- Designed syllabus for first foreign policy course taught online campus-wide
- Engaged students through use of discussion boards, videos, and in person meetings
- Used simulations to show students rationale behind different policies and how they get passed
- Worked with students to improve writing and analysis skills

Political Science 102 – Introduction to Political Science (online)

August 2013 – May 2014

University of Tennessee

Knoxville, TN

- Designed syllabus for first 100 level course taught online in the department
- Engaged students through use of discussion boards and writings based on readings
- Used simulations to show students how a bill becomes a law
- Combined quizzes, writing assignments, and group work to assure material mastery

Political Science 102 – Introduction to Political Science

August 2012 – May 2013

University of Tennessee

Knoxville, TN

- Planned and executed a Political Science 102 course with a focus on comparative politics
- Designed group exercises on political parties and international public policy problems to instill small group work skills and succinct presentation skills
- Allowed students to examine the impact of movies and television on politics through viewing of media and writing analyses

Political Science 312 – Popular Culture and American Politics (online)

August 2011 – May 2012

University of Tennessee

Knoxville, TN

- Co-taught course with Dr. Michael Fitzgerald
- Taught students to examine the portrayal of politics in popular media by using four books, twelve films, and several television episodes
- Graded ten written exams, an end of the semester in depth essay analysis, a midterm, and final to assure learning in this novel, online environment.

Chemistry Associate

August 2010 – May 2011

Tennessee Governor's Academy

Knoxville, TN

- Worked with high school students taking college level chemistry course

Chemistry Teaching Assistant

August 2007 – May 2010

University of Tennessee

Knoxville, TN

- Created and tested new electronics and spectroscopy labs for Physical Chemistry 479
- Worked with Chemistry 120 and 130 students, including exam and laboratory grading

Chemistry Instructor

Virginia Western Community College

August 2006 – May 2007

Roanoke, VA

- Created syllabus for introductory chemistry courses that transfer to Virginia state universities
- Taught over 100 students chemistry 111 and 112

Chemistry Teaching Assistant

Virginia Tech

August 2004 – August 2006

Blacksburg, VA

- Developed new student-based inquiry labs for Analytical Chemistry 220 and 221

POLICY WORK

Research Fellow

Beacon Center of Tennessee

May 2010 – August 2010

Nashville, TN

- Researched the impact of proposed energy legislation in Tennessee
- Publish op-eds and letters to the editor
- Consult on energy and environmental issues
- Co-authored a Tennessee tort reform analysis, which was passed in to law eight months later
- Currently consults on energy and environmental issues several times per year

George C. Marshall Institute for Science Policy

Summer Fellow

June 2011 – August 2011

Washington, D.C.

- Examined the scientific, economic, and political implications of hydraulic fracturing
- Interviewed congressional staffers
- Initial analyses on security implications of changing worldwide energy portfolios

SCIENTIFIC RESEARCH EXPERIENCE

Dr. John Morris, Virginia Polytechnic Institute and State University

August 2004 – May 2006

Hafnium oxide nanoparticles created under vacuum were then exposed to the chemical warfare agent simulant dimethyl methylphosphonate. This work led to the development of a successful research proposal to the Army Research Office.

Dr. Marcia France, Washington and Lee University

May 2003 – August 2003

Synthesis of Novel Bipyridyl-phosphane Ligands and their Application to Asymmetric Catalysis

Dr. Marcia France, Washington and Lee University

January 2003 – April 2003

Variable Temperature T1ρ NMR Study on Chiral BINAP Compounds

Dr. Marcia France, Washington and Lee University

May 2002 – August 2002

Catalytic Asymmetric Cyclopropanation of Olefins

Dr. Judith Cain, Virginia Military Institute

May 2001 – August 2001

Effects of Solvent on Block Copolymer Micelle Exchange Rates

CAMPUS SERVICE

Graduate Student Senate Representative	August 2008 – December 2010
Student Health Advisory Committee	October 2008 – present
Tennessee Science Olympiad Tournament	Annually 2008 – 2012
Student Health Advisory Committee Chair	April 2012 – present
Political Science Graduate Student Association President	April 2012 – present

POLITICAL SCIENCE GRADUATE COURSEWORK

Arms Control and Nuclear Nonproliferation
Comparative Political Parties
Contemporary Issues in Public Administration
College Teaching: Political Science
Politics of Administration
Policy Analysis
Public Administration
Environmental Policy
Public Policy Process
Political Parties and Interest Groups
Voting Behavior
Congress
Presidency
American Government
Quantitative Political Analysis II
Quantitative Political Analysis
Research Design
Scope and Methods of Political Science

PHYSICAL SCIENCE GRADUATE COURSEWORK

Quantitative Chemistry and Spectroscopy
Chemical Kinetics and Transport
Thermodynamics and Statistical Mechanics
Advanced Quantum Chemistry and Spectroscopy
Quantum Chemistry and Spectroscopy
Molecular Structure Determination
Analytical Spectroscopy
Advanced Analytical Chemistry II
Advanced Analytical Chemistry
Advanced Structural Analysis
Mathematical Methods for Physicists
Solid State Physics
Nanotechnology

UNIVERSITY LANGUAGE COURSES

Russian (4 semesters)

French (2 semesters)