

Curriculum Vitae

Personal Information

Name: Elisabeth Anne Gilmore
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Languages: English (native speaker); French (fluent speaking and reading, good writing skills); Spanish (basic speaking and reading)

Educational Background

July 2004 – present: Carnegie Mellon University, Pittsburgh, PA, US

PhD Candidate/Graduate Research Assistant

Engineering and Public Policy/Chemical Engineering

- Work through the Carnegie Mellon Electricity Industry Center (CEIC)
- Research on the quantification of social and environmental externalities of energy generation
- Emphasis on urban air pollution modelling using state of the art photochemical model (Comprehensive Air Quality Model – CAMx)
- Courses in quantitative policy tools, decision models, microeconomics

Sept 2003 – June 2004: Columbia University, New York, NY, US

Doctoral Student/Graduate Research Assistant

Earth and Environmental Engineering

- Courses in technology, economics and policy
- Research on processes of technological change with respect to development of large batteries for energy storage
- Transferred to Carnegie Mellon University in July 2004

Sept 2000 – Aug 2002: University of Toronto, Toronto, Canada

Masters of Applied Science

Chemical and Environmental Engineering

- Thesis title: The Chemistry and Transport of Particulate Matter (PM_{2.5}) Sulphate in Toronto, Ontario
- Computer modelling of the formation of urban air pollution in Visual Basic and Matlab environments and the examination of large datasets using statistical methods

Sept 1995 – June 2000: University of Toronto, Toronto, Canada

Bachelors of Applied Science

Chemical and Environmental Engineering

- Honour thesis title: The Readsorption and Redistribution of Lead in the S.M.&T Sequential Extraction Procedure
- Used radioisotope tracers to track lead in a three step extraction procedure and parallel measurement of stable lead concentrations using inductively coupled plasma-atomic emission spectrometry (ICP-AES)

Work Experience

Sept 2002 – Aug 2003: The International Peace Research Institute (PRIO), Oslo, Norway

Researcher

- Worked on World Bank funded project on the linkages between natural resources, extraction and conflict
- Developed databases of natural resources using geographical information systems (GIS) (e.g. Arcview)
- Received funding through a Canadian national fellowship (Young Canadian Leaders for a Sustainable Future)

Sept 2001 – May 2002: University of Toronto, Toronto, Canada

Teaching Assistant

- Course: sustainable development and preventive engineering
- Led small group discussions around course concepts and applications of sustainable development practices in industry and engineering

Jan 2001 – May 2001: University of Toronto, Toronto, Canada

Teaching Assistant

- Responsible for radioactive chemical laboratory supervision
- Taught students about radioactive safety and explained complex thermodynamic topics in straightforward manner

May 1999 – Sept 1999: University of Toronto, Toronto, Canada

Research Assistant

- Analysed soil samples from local Toronto gardens for pollutants
- Used many analytical techniques and instrumentation (e.g. ICP-AES, XPS, sequential extraction and leaching)
- Created a compendium of soil remediation technologies

May 1998 – Sept 1998: Environment Canada, Hull, Canada

Summer position

- Worked in Technology Transfer Office of the Environmental Technology Advancement Directorate
- Prepared information for Canadian industry on economic opportunities under the Montreal Protocol
- Prepared information and organized tour for international delegations on Canadian technology related to the Montreal Protocol

Publications & Conferences

Gilmore E.A., Gleditsch, N.P., Lujala, P. and Rød, J.K. (2005). Conflict diamonds: A new dataset. *Conflict Management and Peace Science*, forthcoming 18 pages (Research at PRIO).

Lujala, P., **Gilmore, E.A.**, and Gleditsch, N.P. (2005). A diamond curse: civil war and a lootable resource. *Journal of Conflict Resolution*, forthcoming. 25 pages (Research at PRIO).

Gilmore, E.A. and Lujala, P. (2003). The development of the natural resource database. Presented at the European Consortium for Political Research (ECPR), Edinburgh, UK, 28th March - 2nd April. (Presenter)

Gilmore, E.A. (2001). A critique of soil contamination and remediation: the dimensions of the problem and the implications for sustainable development. *Bulletin of Science, Technology & Society* 21 (5): 394-400 (independent study during M.A.Sc.)

Gilmore, E.A., Evans, G.J., and Ho, M.D. (2001). Radiochemical assessment of the readsorption and redistribution of lead in the SM&T sequential extraction procedure. *Analytica Chimica Acta* 439 (1): 139-151 (B.A.Sc. work)

Awards and Scholarships

- Achievement Rewards for College Scientists for Doctoral Research at Carnegie Mellon University
- Presidential Fellowship for Doctoral Research at Columbia University
- Canadian government Natural Science and Engineering Research Council Scholarship – Master’s degree program
- Faculty of Engineering Centennial Thesis Award for best 4th year thesis in chemical engineering
- Faculty of Engineering W.S. Wilson Medal for ranking 1st in chemical engineering
- Society of Chemical Industry Merit Award for outstanding academic achievement

Extracurricular Experience

Jan 2002 – June 2002: Canadian Federation of Students, Toronto, Canada

Chair of Province of Ontario Graduate Students Caucus

- Led the development of policy on issues affecting Ontario graduate students
- Organized one day conference on graduate student and education funding with politicians and other representatives
- Responsible for all communication with media

Sept 2001 – May 2002: Graduate Students' Union, Toronto, Canada

Vice President (External Affairs)

- Responsible for liaising with university student governments across Canada on behalf of the Graduate Students' Union
- Developed and organized campaigns for graduate students on student and related political issues
- Responsible for communication with media on campaigns and presentations to the Governing Council of the University of Toronto and student organizations

Interests and Activities

- International travel in Middle East, Europe, Japan and Mexico
- Bicycling
- Volunteering – tutored high school students in math and science
- French culture – lived in Montreal and visited France on exchange programs
- Reading fiction
- Piano