Research in Canada: A living experience

Nikolaos Tsantalis

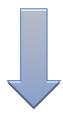


My journey





Software aging







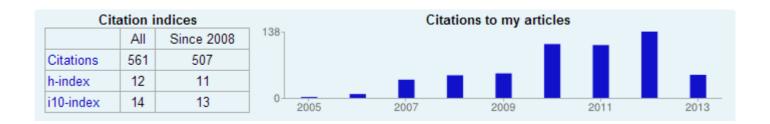


Publications

SOFTWARE ENGINEERING



Academic Impact



- Over 500 citations (170 PhD related)
- Over 15 academic licenses for JDeodorant's source code
- Several empirical studies based on JDeodorant and other tools.

Industry Impact

Since the beginning of 2011:

- •200-300 installations/month in Eclipse Marketplace
- Over 4,000 refactorings applied with JDeodorant
- •Over **100** companies/organizations using JDeodorant









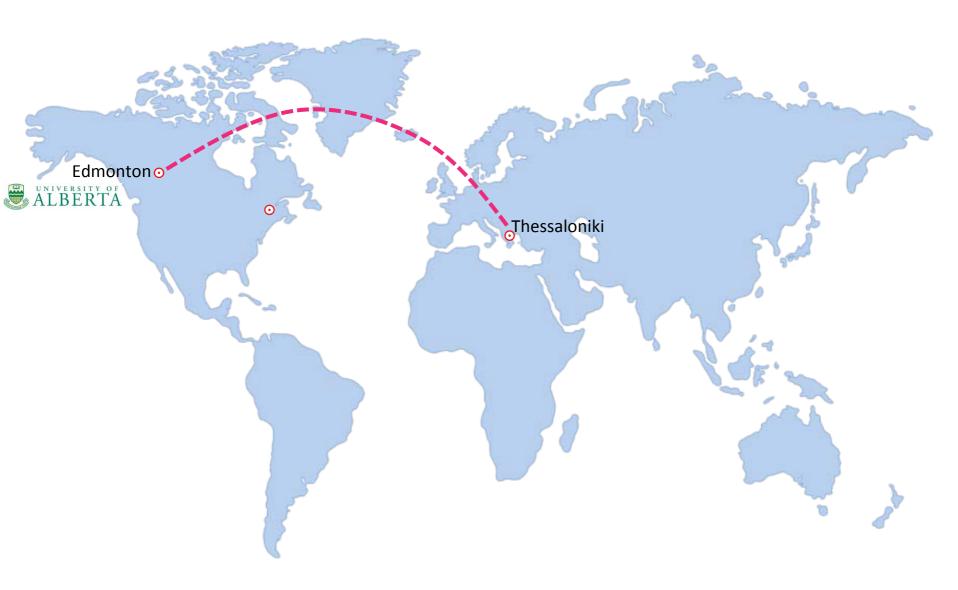








My journey cont'd



Postdoc at UofA



Government of Alberta



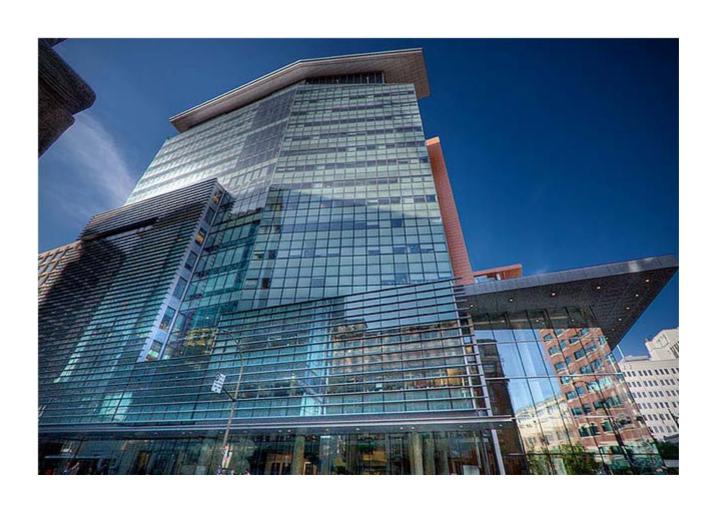
- Dr. Eleni Stroulia is the NSERC/iCORE
 Industrial Research Chair on "Service
 Systems Management"
- Funded \$2.8 Million from NSERC,
 IBM, Alberta Innovates, and UofA



My journey cont'd



My academic home



My highlights at Concordia

- Taught 2 courses:
 - Object-Oriented Programming II (undergrad)
 - Software Measurement (grad)
- Introduced a new grad course on Refactoring
- Hired 3 grad students (2 PhD, 1 Master) and 2 undergrad students (summer projects).
- Received NSERC Discovery Grant (\$100K)

Research in Canada

$Research \Leftrightarrow Funding$

Funding comes from:

- Federal Funding
 - Natural Sciences and Engineering Research Council
 - Social Sciences and Humanities Research Council
- Provincial Funding
- Companies
- University (Scholarships, Start-up grant)



2011-2012 Funding breakdown:

- •\$1.1 billion in total
- •\$177.9 million in Information and Communication Technologies
- •1,938 funded Professors
- •398 Industrial Partners (contributing \$25.8 million)
- •5,008 Awards to Students and Fellows
- •163 NSERC Research Chairs

- Research proposal (5-year plan)
- Peer-review process (400 researchers form 12 evaluation groups for each discipline)
- Evaluation Criteria:
 - Scientific Excellence of the Researcher
 - Merit of the Proposal
 - Contributions to the training of Highly Qualified Personnel
- 3,500 applications every year (50-60% are funded)

The life of a Professor

- A multi-tasking optimization problem
 - Teaching Courses
 - Supervising Students
 - Attracting & Recruiting Students
 - Managing Budget
 - Applying for Funding
 - Service to the Community (Program Committees, Journal Reviewer)
 - and ... Research

Thank you!!

