

# Curriculum Vitæ

## Yvonne Coady

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## Education

- Doctor of Philosophy, Department of Computer Science, University of British Columbia, Vancouver BC, July 2003 (expected). Thesis: *Exploring an Aspect-Oriented Approach to Operating System Code*, Supervisor: Gregor Kiczales.
- Master of Science, Department of Computing Science, Simon Fraser University, Burnaby BC, December 1988, Thesis: *An Investigation of Type-Specific Optimistic, Pessimistic and Hybrid Concurrency Control*, Supervisor: Stella Atkins.
- Bachelor of Science, Computer Science, Gonzaga University, Spokane WA, 1985.

## Publications

### Articles

- Yvonne Coady, Gregor Kiczales, Mike Feeley, Norm Hutchinson and Joon Suan Ong. "Aspect-Oriented Operating Systems". *Communications of the ACM*, Special Issue on Aspect-Oriented Programming, 44(10):79-82, October 2001.
- M. S. Atkins and M.Y. Coady. "Dynamic Concurrency Control for Shared Data Structures". In *ACM Transactions on Computer Systems*, 10(3):190-225, August 1992.

### Conferences

- Yvonne Coady, Gregor Kiczales, Mike Feeley and Greg Smolyn. "Using AspectC to Improve the Modularity of Path-Specific Customization in Operating System Code". In *Proceedings of the Joint European Software Engineering Conference (ESEC) and 9th ACM SIGSOFT International Symposium on the Foundations of Software Engineering (FSE-9)*, pp 88-98, 2001.
- Jasmine Y. Q. Wang, Joon Suan Ong, Yvonne Coady, and Michael J. Feeley. "Using Idle Workstations to Implement Predictive Prefetching". In *Proceedings of the Ninth IEEE Symposium on High Performance Distributed Computing (HPDC-9)*, pp 87-94, 2000.
- Yvonne Coady, Joon Suan Ong, and Michael J. Feeley. "Using Embedded Network Processors to Implement Global Memory Management in a Workstation Cluster". In *Proceedings of the Eighth IEEE Symposium on High Performance Distributed Computing (HPDC-8)*, pp 319-328, 1999.

### *Refereed Workshops*

- Yvonne Coady, Gregor Kiczales, Joon Suan Ong, Andrew Warfield and Michael Feeley. “Brittle Systems will Break - Not Bend: Can AOP Help?”. In *Proceedings of the 10th ACM SIGOPS European Workshop on Operating Systems*, 2002.
- Andrew Warfield, Yvonne Coady and Norm Hutchinson. “Identifying Open Problems in Distributed Systems”. In *Proceedings of European Research Seminar on Advances in Distributed Systems (ERSADS)*, 2001.
- Yvonne Coady, Gregor Kiczales, Mike Feeley, Norm Hutchinson, Joon Suan Ong and Stephan Gudmundson. “Position Summary: Aspect-Oriented System Structure”. In *Proceedings of the 8th Workshop on Hot Topics in Operating Systems (HotOS)*, 2001.

### *Non-refereed Workshops*

- Yvonne Coady, Gregor Kiczales, Mike Feeley, Norm Hutchinson, and Joon Suan Ong. “Structuring System Aspects”. In *Proceedings of Advanced Separation of Concerns Workshop*, held at the *International Conference on Software Engineering (ICSE)*, 2001.
- Yvonne Coady, Gregor Kiczales, Michael Feeley, Norman Hutchinson, Joon Suan Ong and Stephan Gudmundson. “Exploring an Aspect-Oriented Approach to OS Code”. In *Proceedings of the 4th ECOOP Workshop on Object-Oriented Programming and Operating Systems*, held at the *European Conference on Object-Oriented Programming (ECOOP)*, 2001.
- Yvonne Coady, Alex Brodsky, Dima Brodsky, Jody Pomkoski, Stephan Gudmundson, Joon Suan Ong and Gregor Kiczales. “Can AOP Support Extensibility in Client-Server Architectures?”. In *Proceedings of Aspect-Oriented Programming Workshop*, held at the *European Conference on Object-Oriented Programming (ECOOP)*, 2001.
- Alex Brodsky, Dima Brodsky, Ida Chan, Yvonne Coady, Stephan Gudmundson, Jody Pomkoski, Joon Suan Ong. “Coping with Evolution: Aspects vs Aspirin?”. In *Proceedings of the Workshop on Advanced Separation of Concerns*, held at the *ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA)*, 2001.

### *Posters*

- Yvonne Coady, Gregor Kiczales, Michael J. Feeley, Ida Chan, Greg Smolyn. “An Aspect-Oriented Approach to Operating System Code”. Poster session held at the *18th ACM Symposium on Operating Systems Principles (SOSP)*, 2001.
- Joon Suan Ong, Yvonne Coady and Michael J. Feeley. “Integrating Virtual Memory with User-Level Network Communication”. Poster session held at the *17th ACM Symposium on Operating Systems Principles (SOSP)*, 1999.

### *Technical Reports*

- Yvonne Coady and Gregor Kiczales. “Back to the Future: A Retroactive Study of Aspect Evolution in Operating System Code” (submitted for publication). Technical report TR-2002-11, University of British Columbia, 2002.
- Alex Brodsky, Dima Brodsky, Ida Chan, Yvonne Coady, Jody Pomkoski, and Gregor Kiczales. “Aspect-Oriented Incremental Customization of Middleware Services”. Technical report TR-2001-06, University of British Columbia, 2001.

## Invited Participation

- ACM SIGOPS European Workshop on Operating Systems, (Saint-Emilion, France), September 2002.
- Workshop on Advanced Separation of Concerns, held at the *ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications*, (Tampa Bay, USA), October 2001.
- European Research Seminar on Advances in Distributed Systems, (Bologna, Italy), May 2001.
- Workshop on Advanced Separation of Concerns, held at the *International Conference on Software Engineering* (Toronto, Canada), May 2001.

## Invited Talk

- Ecole des Mines de Nantes (France), “Exploring an Aspect-Oriented Approach to Operating System Code”, April 2002.

## Related Work Experience

### *Research Assistant*

- University of British Columbia    Supervisor: Gregor Kiczales                      Sept. 2000 – present
- University of British Columbia    Supervisor: Michael Feeley                      May – Sept. 2000
- Simon Fraser University              Supervisor: Stella Atkins                      Jan. – Dec. 1989

### *Workshop Co-organizer*

- Co-organizer, program committee member, and editor of proceedings for the *First Workshop on Aspects, Components, and Patterns for Infrastructure Software (ACP4IS)*, held at the *1st International Conference on Aspect-Oriented Software Development (AOSD)*, April 2002.

### *Teaching*

- Simon Fraser University, Sessional Lecturer                      Fall 1998  
CMPT 101 for Alternative Routes to Computing (ARC)
- Capilano College, Full-Time Instructor                      Fall 1991 – Fall '97  
1<sup>st</sup> and 2<sup>nd</sup> year university transfer computing science

### *Administrative*

- Steering committee, Alternative Routes to Computing (ARC)                      Spring 1998 – Fall '99
- Coordinator, Computer Science Department, Capilano College                      Fall 1995 – Fall '97