

*Curriculum Vita*  
**John Zahorjan**  
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Department of Computer Science & Engineering  
Box 352350  
University of Washington  
Seattle, WA 98195-2350

(206) 543-0101 (v)  
(206) 543-2969 (fax)  
[zahorjan@cs.washington.edu](mailto:zahorjan@cs.washington.edu)  
<http://www.cs.washington.edu/homes/zahorjan/homepage/>

## Education

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| Ph.D. | Computer Science<br>University of Toronto<br>Dissertation: <i>The Approximate Solution of Large Queueing Network Models</i>            | 1980 |
| M.Sc. | Computer Science<br>University of Toronto<br>Dissertation: <i>A Queueing Network Model of Rotational Position Sensing Disk Devices</i> | 1976 |
| Sc.B. | Applied Mathematics<br>Brown University  | 1975 |

## Professional Experience

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| University of Washington<br>Department of Computer Science | Professor           | 1989-                |
|  | Associate Professor | 1985-1989            |
|  | Assistant Professor | 1980-1985            |
| University of Paris VI<br>Laboratoire MASI                 | Professeur Associé  | WQ 1992<br>1987-1988 |

## Research Interests

Computer Systems and Performance Analysis: Support for real-time rendering on network clusters; video-on-demand delivery policies; processor scheduling in parallel and distributed systems; performance modeling and evaluation techniques; performance of parallel and distributed systems.

## Selected Recent Grants

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| National Science Foundation<br>Principal Investigator, Grant No. CCR-9704503: <i>Resource-Controlled Parallel Execution of Real-Time Applications in Networks of Workstations</i> , \$229,431 (includes REU supplement of \$4,630) | 1997-2000 |
| Intel Corporation<br>Co-Principal Investigator (with J.-L. Baer, B. Bershad, E.D. Lazowska and H.M. Levy), <i>SPIN Clusters: OS Services for Networked Clusters</i> , \$150,000  | 1996-1997 |

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| National Science Foundation<br>Co-Principal Investigator (with Edward D. Lazowska and Henry M. Levy), Grant<br>No. CCR-9200832: <i>System Support for High Performance Computing</i> ,<br>\$1,984,000 (including 20% UW contribution). | 1992-1996 |
| Washington Technology Center<br>Principal Investigator, <i>Computing Support for High Performance Applications</i>   | 1993-1995 |

## Five Recent Publications

Thu Nguyen and John Zahorjan. Image Layer Decomposition for Distributed Rendering on NOWs, Proc. 2000 International Parallel and Distributed Processing Symposium, Cancun, Mexico, May 1-5, 2000.

Derek Eager, Mary Vernon, and John Zahorjan. Bandwidth Skimming: A Technique for Cost-Effective Video-on-Demand, Multimedia Computing and Networking 2000 (MMCN00), San Jose, CA, Jan. 25-27, 2000.

Derek Eager, Mary Vernon, and John Zahorjan, "Optimal and Efficient Merging Schedules for Video-on-Demand Servers", Proc. 7th ACM Multimedia Conf. (Multimedia '99), Orlando, FL, Oct. 30 - Nov. 5, 1999.

Minimizing Bandwidth Requirements for On-Demand Data Delivery, Derek Eager, Mary Vernon, and John Zahorjan, to appear in Proc. 5<sup>th</sup> Int'l. Workshop on Multimedia Information Systems (MIS '99), Indian Wells, CA, October 21-23, 1999. (Award paper; invited for journal publication.)

Thu Nguyen and John Zahorjan. Scheduling Policies to Support Distributed 3D Multimedia Applications. *ACM SIGMETRICS / IFIP WG 7.3 Performance '98 Conf. on Meas. and Modelling of Comp. Sys.*, June 1998.

## Recent Professional Activities

Webmaster, ACM SIGMETRICS, 1999-  
General Chair, 1997 ACM SIGMETRICS Conference on Measurement and Modelling of Computer Systems.  
Technical Vice-Chair, Performance of Distributed Systems, 17th International Conference on Distributed Computing Systems (1997).  
Program Committee Member, 2nd Symposium on Operating Systems Design and Implementation, October 1996.  
Program Committee Member, Workshop on Scheduling Strategies for Parallel Computing, May 1996.  
General Chair, 8th IEEE Symposium on Parallel and Distributed Processing, October 1996.  
ACM SIGMETRICS Election 1995 Nominating Committee, Chair.  
Program Committee Member, First International Conference on Mobile Computing and Networking, August 1995.  
Program Committee Member, Workshop on Scheduling Strategies for Parallel Computing, April 1995.  
NSF Grant Review Panel, 1994.  
Program Committee Member for 1995 ACM SIGMETRICS Conference on Measurement and Modelling of Computer Systems.  
Associate Editor, *ACM Computing Surveys*, 1992-1995.