**Lisa Schaefer, Ph.D.**

Lisa@CrowdPublish.TV

EXPERIENCE

#### [Chief Futurist](http://www.linkedin.com/search?search=&title=Chief+Futurist&sortCriteria=R&keepFacets=true&currentTitle=CP&trk=prof-exp-title)

##### [**CrowdPublish.TV**](http://www.linkedin.com/search?search=&company=CrowdPublish.tv&sortCriteria=R&keepFacets=true&trk=prof-exp-company-name)

November 2012 – Present  Cyberspace

* Developing a Ruby on Rails web environment for authors to interact and communicate with their fans
* Organizer of the 4800+ member Culture Club meetup (one of the largest meetups in the DC metro area). Events relate to the impact of technology on how we experience books & socialize around stories. Changing culture through stories in media.
* Speak about trends that relate to books, authors, and technology
* Writing “Diary of An Avatar: Socializing in a Virtual World” and "My Life As An Avatar: Real Intellectual Community in a Virtual World"

#### [CEO](http://www.linkedin.com/search?search=&title=CEO&sortCriteria=R&keepFacets=true&currentTitle=CP&trk=prof-exp-title)

##### [**RoleModel Enterprises**](http://www.linkedin.com/search?search=&company=RoleModel+Enterprises&sortCriteria=R&keepFacets=true&trk=prof-exp-company-name)

July 2005 – November 2012  Vienna, VA

<> Produced "Budget Justified" (90 min. movie, 50 episode web series, and 19 minute short video) about a woman engineer  
<> Wrote "Budget Justified: The Waste, Fraud, and Abuse of Government Workers" (270 pp) True Story about what really goes on in FAA offices  
<> Wrote “Lisa’s High School Movie,” a hilarious comedy about a math geek's struggles with the troublesome twins of her class. High school is so much funnier after 20 years go by  
<> Lobbied Congress and communicated with journalists on behalf of women’s organizations  
<> Engineering consultant to the Discovery Channel on Building the Future interactive games  
<> Engineering contractor on FAA statistical studies  
<> Hosted Fairfax County public access cable show episodes about women in technology  
<> Took courses and attended networking events to learn about structuring stories, video production, the latest programming techniques, startups, social media, and virtual worlds

#### [Senior Simulation Engineer](http://www.linkedin.com/search?search=&title=Senior+Simulation+Engineer&sortCriteria=R&keepFacets=true&currentTitle=CP&trk=prof-exp-title)

##### [**the MITRE Corporation**](http://www.linkedin.com/search?search=&company=the+MITRE+Corporation&sortCriteria=R&keepFacets=true&trk=prof-exp-company-name)

January 2001 – June 2005  McLean, VA

2003-2005 Future Vision Researcher  
<> Researched and reported on the technologies and the players that will affect the evolution or revolution of aviation of year 2020 and beyond  
<> Statistically evaluated airspace system architecture alternatives using very large databases and queries  
<> Developed new difficult-to-quantify metrics to measure impacts on air travelers  
<> Participated in meetings with FAA management and NATCA controllers from several centers to resolve disputes among design alternatives  
<> Published and presented research in journals and international conferences  
  
2001-2002 Principal Investigator   
<> Managed a team of 10 staff members on two research projects  
<> Developed algorithms & created software to model a range of air traffic futures   
<> Led verification and validation of National Airspace System-wide simulation software   
<> Analyzed airline data and simulation output to determine appropriate performance measure statistics   
<> Chaired research sessions at international conferences

#### [Visiting Assistant Professor](http://www.linkedin.com/search?search=&title=Visiting+Assistant+Professor&sortCriteria=R&keepFacets=true&currentTitle=CP&trk=prof-exp-title)

##### [**American University**](http://www.linkedin.com/search?search=&company=American+University&sortCriteria=R&keepFacets=true&trk=prof-exp-company-name)

August 2004 – May 2005  Washington D.C.

<> Statistics professor: Enabled non-majors to critically analyze statistical information in their future careers

#### [Adjunct Professor](http://www.linkedin.com/search?search=&title=Visiting+Assistant+Professor&sortCriteria=R&keepFacets=true&currentTitle=CP&trk=prof-exp-title)

##### [**Marymount University**](http://www.linkedin.com/search?search=&company=American+University&sortCriteria=R&keepFacets=true&trk=prof-exp-company-name)

August 2003 – May 2004  Arlington, VA

<> Taught Statistics and Math for Teachers

#### [Adjunct Professor](http://www.linkedin.com/search?search=&title=Visiting+Assistant+Professor&sortCriteria=R&keepFacets=true&currentTitle=CP&trk=prof-exp-title)

##### [**Maricopa**](http://www.linkedin.com/search?search=&company=American+University&sortCriteria=R&keepFacets=true&trk=prof-exp-company-name) **County Community Colleges**

August 1994 – December 1995  Phoenix, Scottsdale, AZ

<> Taught Introduction to Engineering Design and Engineering Mechanics

#### [Scholar](http://www.linkedin.com/search?search=&title=Scholar&sortCriteria=R&keepFacets=true&currentTitle=CP&trk=prof-exp-title)

##### [**Arizona State University**](http://www.linkedin.com/search?search=&company=Arizona+State+University&sortCriteria=R&keepFacets=true&trk=prof-exp-company-name)

1996-2000 *Research Associate* Arizona State University Tempe, AZ  
<> Managed research contract with the Federal Highway Administration   
<> Applied object-oriented modeling to transportation analyses  
<> Published and presented research results in journals and at conferences  
  
Summer 1998 *Visiting Scientist* Wright Patterson A.F.B. Dayton, OH  
<> Performed simulation analyses on the affordability of helicopter manufacturing processes  
<> Documented literature review and preliminary analysis of research problem   
  
Summer 1997 *Simulation Engineer* McDonnell Douglas Mesa, AZ  
<> Modeled helicopter manufacturing process to reduce cycle time and inventory statistics  
  
1995-1996 *Graduate Research Fellow* Federal Highway Administration McLean, VA   
<> Developed and evaluated simulation methodologies for traffic simulation software  
<> Negotiated contract for continued research  
  
1988-1995 *Scholar* Arizona State University Tempe, AZ  
<> Financed entire B.S.E., M.S. education and living expenses through grants, teaching, and engineering employment, while serving as an officer of several student organizations

EDUCATION

#### [Arizona State University](http://www.linkedin.com/edu/school?id=17769&trk=prof-edu-school-name)

##### **Ph.D.,** [**Industrial Engineering**](http://www.linkedin.com/search?search=&keywords=Industrial+Engineering&sortCriteria=R&keepFacets=true&trk=prof-edu-field_of_study)

##### 1995 – 2000

##### Statistical modeling, systems simulation

Activities and Societies: [1992-1993 Student Body President: Engineering and Applied Sciences College Council](http://www.linkedin.com/search?search=&keywords=1992-1993+Student+Body+President%3A+Engineering+and+Applied+Sciences+College+Council&sortCriteria=R&keepFacets=true&trk=prof-edu-activities_and_societies)

#### [Arizona State University](http://www.linkedin.com/edu/school?id=17769&trk=prof-edu-school-name)

##### **MS,** [**Civil Engineering**](http://www.linkedin.com/search?search=&keywords=Industrial+Engineering&sortCriteria=R&keepFacets=true&trk=prof-edu-field_of_study)

1993 – 1995

#### [Arizona State University](http://www.linkedin.com/edu/school?id=17769&trk=prof-edu-school-name)

##### **BSE,**[**Civil Engineering**](http://www.linkedin.com/search?search=&keywords=Industrial+Engineering&sortCriteria=R&keepFacets=true&trk=prof-edu-field_of_study)

1988 – 1993

ACADEMIC PUBLICATIONS

**Journal Articles:**

Schaefer L. A., Wolfe P. M., and Montgomery D. C. "A Flow Metamodel for Delivery Agents over a Spatial Area" *IIE Transactions.*Vol. 36, No. 11.

Schaefer L. A., Wolfe P. M., Fowler J., and Lindquist T. "Simulation Meta-Architecture for Analyzing the Emergent Behavior of Agents" *Complexity International*.

Schaefer L. A. and Kirkwood C. W. "Model Selection for Simulation Design: A Multiobjective Decision Analysis Approach, with an Application to Simulating Transport Agents " *Simulation: Transactions of the Society for Modeling and Simulation International.* Vol. 79, No. 2, pp. 83-93.

Schaefer L., Upchurch J., Ashur S. A.  "An Evaluation of Freeway Lane Control Signing Using Computer Simulation" *Journal of Mathematical and Computer Modeling,* Vol. 27, No. 9-11, pp. 177-187.

**Conference Papers:**

Schaefer L. A. "Automation of Human Decision Processes for Route Completion for Airspace Design Analysis" *Winter Simulation Conference*, Washington, D.C.

Wang P., Schaefer L., and Wojcik L. "Flight Connections and Their Impact on Delay Propagation"*22nd Digital Avionics Systems Conference*, Indianapolis, Indiana.

Schaefer L., Wojcik L., Berry T., and Wanke C. "Decision Support for Advanced Aviation Concepts"*Winter Simulation Conference*, San Diego, California.

Schaefer L. "Architecture Using Web Technology for Simulation of an Agent-Based Transportation System" *Winter Simulation Conference*, Washington, D.C.

Schaefer L. and Millner D. "Flight Delay Propagation Analysis with the Detailed Policy Assessment Tool" *IEEE Systems, Man, and Cybernetics Conference*, Tucson, Arizona.

Schaefer L., Graf G., and Lindquist T. "Three-Segment Agent Architecture for Workflow"*International Conference on Artificial Intelligence*, Las Vegas, Nevada.

Schaefer L., Wolfe P. "Issues in Java-Based Continuous Time Step Physical Modeling" *Winter Simulation Conference*, Orlando, Florida.

Courter S., Lyle R., Nickels K., Noyce D., Pearce A., Reeves J., Schaefer L., Wickramasinghe R., "Change Agents: Immediately Implementable Teaching and Educational Hints from the Engineering Education Scholars Program." *American Society of Engineering Education Conference* Charlotte, North Carolina.

Schaefer L., "Adapting Pedestrian Agent Rules for Factory Layout Design." *Annual Industrial Engineering Research Conference* Phoenix, Arizona.

Schaefer L. A., Mackulak G. T., Cochran J. K., Cherilla J. L.  "General Particle Simulation Model of Pedestrians" *Winter Simulation Conference,* Washington, D.C.

Schaefer L., Cochran J.  "Reducing Cycle Time and In-Process Inventory by Reducing Queues and Process Time Variance" *Advanced Simulation Technologies Conference,* Boston, Massachusetts. pp. 66-72.

**Book Chapter:**

Schaefer L. and Wang P. "Heuristics for Predicting Future Aircraft Itineraries" in the Contemporary Mathematics Series *Current Trends in Scientific Computing*, Editors: Zhangxin (John) Chen, Roland Glowinski and Kaitai Li, American Mathematical Society.