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- Amy LaViers
- Gerard P. Learmonth, Sr.
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- K. Preston White, Jr.

## Links for Faculty

## Gerard P. Learmonth, Sr



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**Degrees:**  
 B.S., New York University  
 M.B.A., New York University  
 M.S., Operations Research, Naval Postgraduate School  
 Ph.D, Statistics and Management Science, University of Michigan

### Biography:

Gerard P. Learmonth Sr. is Research Associate Professor in the Department of Systems and Information Engineering in the School of Engineering and Applied Science. He holds a secondary appointment as Associate Professor in the Department of Public Health Sciences in the School of Medicine. Prior academic appointments include the George Washington University, Boston College, and Dartmouth College.

Current research projects include: the continued development of participatory simulation models including Global Water Games; the UVa Bay Game; the UVa Sustainable Supply Chain Game; a large-scale simulation model of the U.S. healthcare system to assess the impact of the Patient Protection and Affordable Care Act; and an agent-based simulation model to assess the efficacy of planned water and sanitation interventions to improve the long-term health and growth of children in Limpopo Province, South Africa.

### Research Interests:

- Large-scale computational modeling
- complex systems
- agent-based modeling
- environmental systems modeling
- supply chain modeling
- urban development

### Research Groups:

- [Computational Statistics and Simulation](#)

### Research Centers:

- [UVA MINDSET](#)

### Representative Publications:

1. Boissevain B, Botchwey N, Cunningham T, Louis G, Learmonth G, Firehock F, Terni C, Swap R, Spreen CA, Samie A, Netshandama V, Dillingham RA (2009). Water and Health in Limpopo Province, South Africa: A Community-Centered Collaborative Initiative of the University of Venda and the University of Virginia. *Water and Health, 137th Meeting of the American Public Health Association*.
2. Cunningham T, Bothchwey N, Netshandama V, Boissevain J, Firehock K, Learmonth G, Louis G, and Dillingham R (2009). Understanding Water Perceptions in Limpopo Province: A Photovoice Community Assessment. *Environmental Pollution and Public Health Track, Third International Conference on Bioinformatics and Biomedical Engineering*.
3. DeMarco D, Kovala S, Smith L, Verella JT, Learmonth G, and Patek S (2009). Agent-based Simulation Model for Predicting Adoption Rates of Electronic Medical Records. *Proceedings of the 2009 Systems and Information Engineering Design Symposium*.
4. Learmonth G, Dillingham R, Firehock K, Bessong P, Samie A, Maluleke M, Mamba G, Belcher R, Upchurch P, Crihfield A (2009). Water and Health in Limpopo: A Mobile Phone-based Data Collection System. *Poster, mHealth Conference, Foundation for the National Institutes of Health*.

- [UVA Faculty Page](#)
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5. Huddleston S, Learmonth G, and Fox J (2008). Changing Knives into Spoons. *Proceedings of the 2008 Systems and Information Engineering Design Symposium*.
6. Learmonth G and Ives B (1987). Information System Technology Can Improve Customer Service. *Data Base, Vol. 18, No. 2*.
7. Ives B and Learmonth G (1984). The Information System as a Competitive Weapon. *Communications of the ACM, Volume 27, Number 12*.

**Other Activities:**

- Founding Director: Center for Large-Scale Computational Modeling
- Architect and developer - UVa Global Water Games ([www.virginia.edu/baygame](http://www.virginia.edu/baygame))

**Graduate Students:**

- 
- [Matthew Engelhard](#)
  - [Osama Eshera](#)

- 
- [Johnny Gan](#)
  - [Jin Li](#)

- 
- [Samantha Vacik](#)
  - [Matt White](#)

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