Alessandro Panella

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EDUCATION

- **Ph.D. Computer Science** (expected graduation: 2014) — 2009–Ongoing
  University of Illinois at Chicago — Chicago, IL
  Overall GPA: 3.93/4.0 – PhD GPA: 4.0/4.0
- **Laurea Specialistica (equivalent to M.S.) Computer Science Engineering** — 2006–2009
  Politecnico di Milano — Milan, Italy
  Final Grade: 110/110 Summa cum Laude - GPA: 28.7/30
- **M.S. Computer Science** — 2007–2008
  University of Illinois at Chicago — Chicago, IL
  GPA: 3.85/4.0
- **Laurea (equivalent to B.S.) Computer Science Engineering** — 2003–2006
  Politecnico di Milano — Milan, Italy
  Final Grade: 109/110 - GPA: 27.6/30

RESEARCH & WORK EXPERIENCE

- **Multiagent Systems Group, Artificial Intelligence Laboratory at UIC** — 2009–Ongoing
  Research assistant with Prof. Piotr Gmytrasiewicz

  - Researching new solutions for decision making in multiagent environments.
  - Bayesian nonparametric learning methods and their application to stochastic multiagent planning.
  - Merging of first-order logic and probability theory for the representation of nested, interactive beliefs.

- **Learning Technologies Laboratory at UIC** — Spring 2011–Ongoing
  Research collaborator with Prof. Leilah Lyons

  - Work on personalized embodied interactions for museum exhibits using the Microsoft Kinect camera.
  - Integration of camera and RFID data for user's identification.
  - Development of a probabilistc inference model for correct personalization of data.

- **Department of Computer Science at UIC** — Fall 2012
  Lecturer for Prof. Piotr Gmytrasiewicz

  - Taught ~70% of lectures for the course Artificial Intelligence 1. Topics included:
    - Foundations of agents and environments.
    - Propositional and first-order logic.
    - Probabilistic reasoning and Bayesian networks.
    - Introduction to machine learning.

- **Microarchitectures Laboratory at Politecnico di Milano, Italy** — 2006–2009
  Founder and member, DRESD research project

  - VLSI design automation for reconfigurable multi-FPGA systems.
  - Decision making for dynamic reconfiguration of circuits.

- **Colfasa Group** (Milan, Italy) — 2006–2007
  Freelance Webmaster

  - Creation of two web portals for European Community social projects using PHP and MySql.

SERVICE

- **Fourth International Conference on Agents and Artificial Intelligence (ICAART-12)** — Fall 2011
  Program Committee Member
- **Twenty-Second International Joint Conference on Artificial Intelleigence (IJCAI-11)** — Spring 2011
  Program Committee Member
- **Workshop on Interactive Decision Theory and Game Theory (IDTGT) at AAAI-11** — Spring 2011
  Reviewer

Miscellanea

- **Interdisciplinary research project in computational ecology**   Fall 2011–Ongoing
  - Study on the effect of nomadic cattle enclosures in savannah ecosystems.
  - Applied machine learning methods for data analysis.
  - Joint NSF-founded course at UIC and Princeton University.
  - Field data collection at Mpala Research Center in Kenya in January 2012.
- **Graduate Student Game Theory Reading Group at UIC**   Fall 2012–Ongoing
  - Organizer, discussion leader.
  - Focus on multi-agent learning.
- **Seminar talks, Department of Computer Science at UIC**
  - *Nonparametric Bayesian methods*, Machine Learning Seminar.   Spring 2013
  - *Probabilistic reasoning*, Knowledge Representation and Reasoning Seminar.   Spring 2011

Publications

- **A. Panella**. "Multiagent Stochastic Planning With Bayesian Policy Recognition." *18th AAAI/SIGART Doctoral Consortium* at AAAI 2013. Bellevue, WA, July 2013 (to appear.)

- F. Cafaro, **A. Panella**, L. Lyons, J. Roberts, J. Radinsky. "I See You There! Developing Identity-Preserving Embodied Interaction for Museum Exhibits." *CHI Conference on Human Factors in Computing Systems (CHI 2013).* Paris, France, May 2013 (to appear.)

- **A. Panella**, P. Gmytrasiewicz. "A Partition-Based First-Order Probabilistic Logic to Represent Interactive Beliefs." *5th International Conference on Scalable Uncertainty Management (SUM 2011)*, pp. 233-246. Dayton, OH, Oct. 2011.

- **A. Panella**, P. Gmytrasiewicz. "Interactive First-Order Probabilistic Logic." *AAAI 2011 Workshop on Interactive Decision Theory and Game Theory (IDTGT 2011)*, San Francisco, CA, Aug. 2011.

- **A. Panella**, M.D. Santambrogio, F. Redaelli, F. Cancarè, D. Sciuto. "A design workflow for dynamically reconfigurable multi-FPGA systems." *18th IEEE/IFIP International Conference on Very Large Scale Integration (VLSI-SoC 2010),* pp. 414-419. Madrid, Spain, Sept. 2010.

- M. Murgida, **A. Panella**, V. Rana, M.D. Santambrogio, and D. Sciuto. "Fast IP-Core Generation in a Partial Dynamic Reconfiguration Workflow." *14th IFIP International Conference on Very Large Scale Integration (VLSI-SOC 2006)*, pp. 74-79. Nice, France, Oct. 2006.

Knowledge & Skills

- Broad preparation in computer science; emphasis on theoretical subjects.
- Research interests:
  - Stochastic planning, machine learning, data mining, probabilistic graphical models, Bayesian inference, stochastic processes, multi-agent systems, game theory.
  - Interdisciplinary research: human-computer interaction and ecology.
- Programming and scripting languages: C, C++, Java, Python, R, MATLAB. Hardware description languages: VHDL.
- Web and database technology: HTML, XML, Adobe Flash, PHP, MySQL.
- Ability to solve unseen problems with new tools. Strong organizational skills.
- Innately friendly and at ease in any social and working context.

Personal Interests

- Urban transportation; public transit and biking enthusiast.
  - Volunteered for Chicago DOT's bike counts.
- Open government data.
  - Chicago's Open Gov Hack Nights.
- Architecture, design, and typography.
- Avid music listener: mostly contemporary indie rock, post-rock, and experimental.
- Books: fiction and biographies.
- Outdoor activities: skiing, hiking, biking, camping.
- Information scrapper, collector of useless trivia, excellent conversationist.