

# Junling Hu

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## Summary

- Expert in machine learning, data mining, and natural language processing.
- Passionate designer for Internet technology and interactive systems
- Experienced project leader of full-cycle product development

## Experience

**eBay Inc**, San Jose, California **2010-present**

**Principal Data Mining Lead**, Web analytics group

- Analyze large-scale eBay data to extract inventory intelligence and user behavior insight.
- Lead a team of researchers and engineers to build analytic solution for business units.

**Bosch Research & Technology Center**, Palo Alto, California **2006-2010**

**Project Manager & Senior Researcher**, Data Mining group

- Apply data mining to analyze consumer healthcare data. Handle large-scale sparse data..
- Lead a team of researchers and research engineers to deliver modules for business unit.
- Define the project scope, technical challenge and requirement, and promote the project to the upper management. Collaborate with business unit customers to collect requirement and feedback.
- Apply machine learning to fully automate dialog system for in-car navigation system, and local search supported by web services
- Co-chair of international workshop on natural language dialog systems.
- Advanced research on natural language understanding, apply machine learning to extract named entities, semantic slots and dialog acts.

**iLifeCoach.com**, Menlo Park, California **2003-2006**

Internet startup that provides online coaching to consumers

**Founder & CTO**

- Lead the technology design of an Internet startup company, whose initial product was a dialog agent that provides personal services to consumers.
- Lead the re-design and transition of the product to online community-based personal service.
- Lead the full-cycle of product development, starting from market requirement, to design, development, and launch of the product
- Collect customer feedback based on click-through analysis and user survey. Re-design our product based on user response.

**University of Rochester**, Rochester, New York **2000-2003**

**Assistant Professor of Information Systems**

- Lead the research on machine learning and intelligent agent design
- Lead the research and design of a natural-language dialog agent, which integrates large dictionary, parser, semantic interpreter, dialog manager and knowledge manager.
- Teaching classes on Electronic Commerce, Internet technology and dynamic pricing games

**Artificial Intelligence Lab, University of Michigan**  
**Research Assistant, Decision Machine Group**

**1995-1999**

- Research and development of intelligent agents for online auctions
- Research on combining game theory and reinforcement learning for multi-agent environment
- Research and development of learning agents in dynamic games

**Honors and Awards**

- National Science Foundation CAREER Award  
Project Title: *Decision Making and Learning in Dynamic Multiagent Systems*
- SIGART/AAAI doctoral consortium fellowship
- Sloan Fellowship for Distinguished Women in Engineering

**Professional Activities**

- Co-Chair: Workshop on Bridging the Gap of Academic and Industrial Research on Dialog Technologies, in the Conference of the North American Chapter of the ACL (NAACL-HLT), Rochester, NY, April 2007
- Program Committee: The Second International Joint Conference in Autonomous Agents and Multiagent Systems (AAMAS-03)
- Reviewer:  
*Machine Learning*  
*Journal of Machine Learning Research*  
*Journal of Artificial Intelligence Research,*  
*IEEE Transactions on Computers, IEEE Transactions on Neural Networks*  
*IEEE Transactions on Systems, Man and Cybernetics*  
*Electronic Markets*  
*Speech Communication*  
*National Science Foundation grant proposal review panel*
- Invited Talks:
  - “Dynamic N-Best Selection in Dialog Systems”, L3S Research Institute, Sept 2007
  - “Reinforcement Learning in Multiagent Systems”, Stanford University, Nov 2003
  - “Learning in General-Sum Stochastic Games with Incomplete Information”, the Ninth International Symposium on Dynamic Games and Applications, Australia, Dec 2000
- Invited workshop participant:
  - AAI workshop on AI for Electronic Commerce 1999
  - Workshop on Artificial Intelligence and Interactive Entertainment 2002

**Selected Publications**

Total more than **900** citations according to *Google scholar*

- Junling Hu, Fabrizio Morbini, Fuliang Weng and Xue Liu, “Dynamic N-best Selection and Its Application in Dialog Act Detection”, Proceedings of the 8<sup>th</sup> SIGDial workshop on Discourse and Dialogue, 59-62, September 2007
- Fuliang Weng, Ye-Yi Wang, Gokhan Tur and Junling Hu. (Editors) *Proceedings of the Workshop on Bridging the Gap of Academic and Industrial Research in Dialog Technologies*, the Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL-HLT), Rochester, NY, April 2007.

