

# BETH ANN HOCKEY

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## PROFESSIONAL EXPERIENCE

6/2007 – present **Adjunct Associate Professor of Linguistics, UCSC**

4/06-7/06 **Visiting Associate Professor of Linguistics, UCSC**

Advanced undergrad/grad course on Dialogue Systems, collaboration with Linguistics Dept faculty on grant applications.

1/99-present **NASA Ames Research Center, Research Scientist**  
(on-site contractor UCSC 2//04-present; RIACS 1/99-2/04)

*Major duties: Spoken Dialogue System Research and Development and Evangelizing spoken language technology within NASA.*

**Project lead on two major projects taken from initial concept to use:**

### **Clarissa Procedure Navigator project, the first spoken dialogue system in space** (<http://www.ic.arc.nasa.gov/projects/clarissa/>)

- Research in dialogue management, language modeling and in using kernel methods for open microphone decisions
- Gathered system requirements through discussions with astronauts and procedure development personnel at Johnson Space Center(JSC)
- Developed specifications for Clarissa system
- Designed overall dialogue behavior
- Worked with team on rapid development of demonstration prototypes
- Convinced management to fund hire of key personnel
- Led implementation of XML procedure representations
- Currently leading implementation of revisions to keep procedures up to date
- Designed and executed user testing and evaluation
- Trained potential users
- Supported initial ISS use of the system from Mission Control
- Currently managing JSC approval process for Clarissa use on International Space Station(ISS) for Expeditions 11 and 12
- Executed system use on ISS, in the face of a 50% reduction in project staff
- Currently leading publicity and promotion, external and within NASA including:
  - Talks given at UPenn, MITRE, ISI, PARC, Stanford, V-World, ACL meeting & AAI workshop
  - News coverage: >20 articles/broadcasts in >6 languages
  - Discussions with NASA management to develop strategy for follow-on

**Regulus Project, Open Source toolkit for unification grammar based**

**language modeling** (<http://www.ic.arc.nasa.gov/projects/regulus/>)

- Initiated idea of developing new open source system
- Developed plan with collaborator at commercial organization
- Convinced NASA Ames, RIACS and Commercial partner to do project as open source
- Presented proposal to management and secured internal funding for key personnel
- Won grant as PI with successful proposal to highly competitive NASA Research Announcement (20/266 selected)
- Liason to JSC users/collaborators
- Core developer & Researcher on Regulus
- Core developer & Researcher on two major projects developed with Regulus:
- Clarissa and MedSLT (<http://www.issco.unige.ch/projects/medslt/>)
- Co-author on 10 Regulus related conference papers, journal article under review and book in progress on Regulus to be published in 2006 through CSLI press
- Currently there have been over 250 downloads of Regulus from SourceForge

Other activities:

- Start up of Ames Spoken Dialogue Group.
- Worked with team on five prototypes to demonstrate spoken dialogue capabilities.
- Educated NASA Ames research and JSC communities on potential of spoken language technology for NASA applications.
- Convinced management to fund new hires, doubling size of group.
- Research on dialogue management, grammar structure and Targeted Help.

**6/89 - 12/99 University of Pennsylvania, Philadelphia, PA. Research Assistant, Project manager for XTAG project 7/89 - 9/95.**

Linguistic research, analysis and grammar implementation in LTAG formalism for wide coverage English Grammar; recruiting and training linguists for project; supervising implementation and debugging of massive grammar expansion; preparation of detailed technical report on project.

**1/91 - 6/91 University of Pennsylvania, Philadelphia, PA. Teaching Assistant for course on Introductory Linguistics.**

**6/90 - 9/90 University of Pennsylvania, Philadelphia, PA. Instructor for course on Introductory Linguistics.**

**1/87 – 6/88 Northwestern University, Evanston IL. Teaching Assistant for Introductory Linguistics courses**

**EDUCATION**

**Ph.D., Linguistics, University of Pennsylvania at Philadelphia (1998)**

**M.S.E., Computer Science, University of Pennsylvania at Philadelphia (1992)**

**A.B. (honors), Linguistics, University of California at Davis (1981)**

Graduate Coursework, Northwestern University (1986-1988)

Linguistics Institute (1987 and 1991)

## **GRANTS**

“Regulus Based Spoken Dialogue System”,  
B.A. Hockey, PI, Ford Motors Research Division.

"Reusable Robust Speech Recognition for Spoken Dialogue Applications,"  
B.A. Hockey PI, NASA Intelligent Systems NRA

## **AWARDS**

NASA Ames Award for Excellence 2005  
SpeechTek Big Bang Award; most impactful speech application of 2005, for Clarissa  
University of Pennsylvania, William Penn Fellowship 1988 – 1992  
Linguistics Institute Fellowships 1987 and 1991  
University of California-Davis, Undergraduate Linguistics Award 1981

## **TUTORIAL**

Manny Rayner, Beth Ann Hockey and Pierrette Bouillon. "Building Linguistically Motivated Speech Recognisers with Regulus" Association for Computational Linguistics 2004 Annual Meeting, Tutorial session July 21, 2004

## **INVITED TALKS**

Hockey, Beth Ann, Ascander Dost and Justin Nuger, “Spoken Dialogue Technology for Space & Earth: Clarissa and Beyond”, Presentation for the University of California Regents Meeting, Ames Research Center, Moffett Field CA, 19 Sept 2006

Hockey, Beth Ann, “Clarissa Procedure Navigator” Main Stage Presentation for Education Day, Wired Magazine’s NextFest, Javits Center, NYC, NY, 28 Sept 2006.

Hockey, Beth Ann, “Interactive Demonstration of the Clarissa Procedure Navigator”, NASA Exhibit, Wired Magazine’s NextFest, Javits Center, NYC, NY, 28 Sept – 1 Oct 2006

Hockey, Beth Ann, “Spoken Dialogue Systems for Command and Control: from Space Stations to Cars”, Invited Talk, Ford Research Division, Dearborn MI, 14 Aug 2006.

Hockey, Beth Ann “Jobs in Computational Linguistics” UC Santa Cruz Linguistics Department, Undergraduate Career Workshop, UCSC, Santa Cruz, CA, 21 April 2006

Hockey, Beth Ann, “The Clarissa Procedure Navigator: A mixed initiative dialogue system for the International Space Station”, Invited talk, Language Technology Program, Research and Technology Center, Robert Bosch Corp. Palo Alto, CA, 17 February, 2006

Hockey, Beth Ann and Bressan, Marco “Clarissa Virtual Crew Assistant in Space”, Invited talk, Xerox 2005 Industry Analysts Briefing, Boston, MA, 27 October 2005

Hockey, Beth Ann “Building Speech Recognizers using Unification Grammars: The Regulus Toolkit” Invited Seminar, UC Santa Cruz, Linguistics Dept, 30 Sept 2005

Hockey, Beth Ann "Clarissa: the first dialogue system in space". UARC Systems Teaching Institute "Computing Language? Or Developing speech recognition tools for astronauts" Seminar. Moffett Field CA, 25 August 2005.

Hockey, Beth Ann "A Voice Enabled Procedure Browser for the International Space Station", Invited Seminar, MITRE, 7 Feb 2005; UPENN, 10 Feb 2005; PARC, 8 Mar 2005.

Hockey, Beth Ann "Spoken Dialogue Technology in Space" V-World, San Francisco, CA, 13 April 2005.

Hockey, Beth Ann "Dialogue Systems in Space: procedure reader & navigator for the International Space Station" Invited seminar, Telia Research, Stockholm Sweden, June 2004.

Hockey, Beth Ann and Rayner, Manny, "Declarative Side-Effect Free Dialogue Management", Invited Participant, MITRE Dialogue Workshop, The MITRE Corporation, Bedford, MA. October 2003

Hockey, Beth Ann "A Voice Enabled Procedure Browser for the International Space Station", Invited Seminar, MITRE, 7 Feb 2005; UPENN, 10 Feb 2005; PARC, 8 Mar 2005.

Hockey, Beth Ann and Manny Rayner, "Putting Linguistics into Speech Recognition: Portable Language Modeling with REGULUS". Invited seminar. PARC, Palo Alto, CA. June 2003.

Hockey, Beth Ann and Rayner, Manny, "Regulus: Portable Grammar-Based Speech Recognition for spoken dialogue systems". CAS seminar. NASA Ames Research Center. June 2003.

Hockey, Beth Ann and Rayner, Manny "Example based derivation of efficient domain-specific speech recognisers from a general linguistically motivated unification grammar", Invited talk given at The International Computer Science Institute (ICSI), Berkeley, CA, March 18, 2003

Hockey, Beth Ann, "RIALIST Personal Satellite Assistant (PSA) Dialogue System". Invited seminar, Telia Research, Stockholm Sweden, June 2000

Hockey, Beth Ann, "Dialogue Management in the RIALIST Systems". Invited seminar, KTH Stockholm Sweden, June 2000

Hockey, Beth Ann, "Talking to robots, RIALIST Dialogue Systems". Invited seminar, Linkoping University, Linkoping Sweden, June 2000

Hockey, Beth Ann, "The Interpretation and Realization of Focus: an experimental investigation", Invited talk given at Bell Labs, Lucent Technologies, July 1998.

Hockey, Beth Ann, "Linguistic Analysis as a Resource for NLP: Development and Exploitation", Invited talk given at Sun Microsystems Laboratories, January 1998.

Hockey, Beth Ann, "Focus and the Discourse Function of Echo Questions", Invited talk given at the University of Texas, Austin, Linguistics Department, September 1995.

Hockey, Beth Ann, "Discourse Particle and Intonation Idioms in English", Invited talk given at ATR Interpreting Telephony Research Laboratory, December 1993, Kyoto Japan.

## PUBLICATIONS

Rayner, M., B.A. Hockey, J.M. Renders, N. Chatzichrisafis and K. Farrell. "Spoken Dialogue Systems in Space". To appear in F. Chen and K. Jokinen (eds) "New Trends in Speech Based Interactive Systems", Springer, 2008

Hockey, B.A. and D. P. Miller (2007) "A Demonstration of a Conversationally Guided Smart Wheelchair." Proc. ASSETS 2007, Ninth International ACM SIGACCESS Conference on Computers and Accessibility. Tempe Arizona.

P. Bouillon, G. Flores, M. Starlander, N. Chatzichrisafis, M. Santaholma, N. Tsourakis, M. Rayner, B-A. Hockey (2007). [A Bidirectional Grammar-Based Medical Speech Translator](#). In Proceedings of *workshop on Grammar-based approaches to spoken language processing, ACL 2007, June 29, Prague, Czech Republic*.

P. Bouillon, S. Halimi, M. Rayner, B-A. Hockey (2007). [Adapting a Medical Speech to Speech Translation System \(MedSLT\) to Arabic](#). In Proceedings of *workshop on Computational Approaches to Semitic Languages: Common Issues and Resources, ACL 2007, June 27, Prague, Czech Republic*.

M. Rayner, B. A. Hockey and P. Bouillon (2006). [Putting Linguistics into Speech Recognition: The Regulus Grammar Compiler](#). Stanford University Center for the Study of language and information, Stanford, California.

M. Rayner, P. Bouillon, N. Chatzichrisafis, M. Santaholma, M. Starlander, B. A. Hockey, Y. Nakao, H. Isahara, K. Kanzaki (2006). [MedSLT: A Limited-Domain Unidirectional Grammar-Based Medical Speech Translator](#). In *Proceedings of First International Workshop on Medical Speech Translation, HLT-NAACL, June 9, 2006, New York*.

N. Chatzichrisafis, P. Bouillon, M. Rayner, M. Santaholma, M. Starlander, B. A. Hockey (2006). [Evaluating Task Performance for a Unidirectional Controlled Language Medical Speech Translation System](#). In *Proceedings of First International Workshop on Medical Speech Translation, HLT-NAACL, June 9, 2006, New York*.

M. Rayner, P. Bouillon, B. A. Hockey, N. Chatzichrisafis (2006). [REGULUS: A Generic Multilingual Open Source Platform for Grammar-Based Speech Applications](#). In *Proceedings of LREC, 24-26 May 2006, Genoa, Italy*.

Y. Nakao, M. Rayner, N. Chatzichrisafis, H. Isahara, P. Bouillon, B. A. Hockey, K. Kanzaki (2006). [Recent Usability Improvements in MedSLT: Back-Translation & Help System](#). In *Proceedings of the NLP2006 Conference, 14-16 March 2006, Tokyo, Japan*. (In Japanese).

Rayner, M., P. Bouillon, N. Chatzichrisafis, B.A. Hockey, M. Santaholma, M. Starlander, H. Isahara, K. Kanzaki and Y. Nakao "A Methodology for Comparing Grammar-Based and Robust Approaches to Speech Understanding" Proceedings of INTERSPEECH 2005, Lisbon, Portugal. September 2005.

Hockey, B.A. and M. Rayner. "Comparison of Grammar Based and Statistical Language Models Trained on the Same Data". Proceedings of the AAAI Workshop on Spoken Language Understanding, Pittsburgh, PA, July 2005.

Rayner, M., B.A. Hockey, N. Chatzichrisafis, K. Farrell and J.M. Renders. "A Voice-Enabled Procedure Browser for the International Space Station". Proceedings of the 43rd Annual Meeting of the Association for Computational Linguistics (interactive poster and demo track), Ann Arbor, MI, June 2005.

Bouillon, P., M. Rayner, N. Chatzichrisafis, B.A. Hockey, M. Santaholma, M. Starlander, H. Isahara, K. Kanzaki and Y. Nakao. "A Generic Multi-Lingual Open Source Platform for Limited-Domain Medical Speech Translation". Proceedings of EAMT 2005, Budapest, Hungary, May 2005.

Nakao, Y., M. Rayner, B.A. Hockey, P. Bouillon, N. Chatzichrisafis, H. Isahara and K. Kanzaki. "Iryou Sindan you Onsei Honyaku Sisutemu MedSLT ni Okeru Nihongo Kisoku no Sakusei". Proceedings of NLP 2005, Japan, March 2005.

Rayner, M., P. Bouillon, N. Chatzichrisafis, B.A. Hockey, M. Santaholma, M. Starlander, H. Isahara, K. Kanzaki and Y. Nakao "A Methodology for Comparing Grammar-Based and Robust Approaches to Speech Understanding" Proceedings of INTERSPEECH 2005, Lisbon, Portugal. September 2005.

Rayner, M., B.A. Hockey, N. Chatzichrisafis, K. Farrell and J.M. Renders. "A Voice-Enabled Procedure Browser for the International Space Station". Proceedings of the 43rd Annual Meeting of the Association for Computational Linguistics (interactive poster and demo track), Ann Arbor, MI, June 2005.

Rayner, M., P. Bouillon, M. Santaholma and Y. Nakao. "Representational and Architectural Issues in a Limited-Domain Medical Speech Translator". Proceedings of TALN 2005, Dourdan, France, June 2005.

Bouillon, P., M. Rayner, N. Chatzichrisafis, B.A. Hockey, M. Santaholma, M. Starlander, H. Isahara, K. Kanzaki and Y. Nakao. "A Generic Multi-Lingual Open Source Platform for Limited-Domain Medical Speech Translation". Proceedings of EAMT 2005, Budapest, Hungary, May 2005.

Nakao, Y., M. Rayner, B.A. Hockey, P. Bouillon, N. Chatzichrisafis, H. Isahara and K. Kanzaki. "Iryou Sindan you Onsei Honyaku Sisutemu MedSLT ni Okeru Nihongo Kisoku no Sakusei". Proceedings of NLP 2005, Japan, March 2005.

Rayner, M and Hockey, B.A. 2004 "Side Effect Free Dialogue Management in a voice Enabled Procedure Browser", In Proceedings of the International Conference on Spoken Language Processing, Jeju, Korea.

Rayner, M., Bouillon P., Hockey, B.A., Chatzichrisafis, N. and Starlander, M., 2004. "Comparing Rule-Based and Statistical Approaches to Speech Understanding in a Limited Domain Speech Translation System", In Proceedings of the 10th International Conference on Theoretical and Methodological Issues in Machine Translation; Baltimore, MD.

Rayner, M., Hockey, B.A., Hieronymus, J., Dowding, J., Aist, G., Early, S. 2003. "An Intelligent Procedure Assistant Built Using Regulus 2 and Alterf." In Proceedings of the Association for Computational Linguistics (ACL), Demo Session: Sapporo, Japan.

Rayner, M., Bouillon, P., Van Dalsem, V., Isahara, H., Kanzaki, K., Hockey, B.A. 2003. "A Limited-Domain English to Japanese Medical Speech Translator Built Using Regulus 2" In Proceedings of the Association for Computational Linguistics (ACL), Demo Session: Sapporo, Japan.

Hockey, B.A., Lemon, O., Campana, E., Hiatt, L., Aist, G., Hieronymus, J., Gruenstein, A., and Dowding, J. 2003. "Targeted help for spoken dialogue systems: intelligent feedback improves naive user's performance." Proc. 10th EACL. Budapest, Hungary.

Rayner, M. and B.A. Hockey. 2003. "Transparent combination of rule-based and data-driven approaches in a speech understanding architecture". Proc. 10th EACL. Budapest, Hungary.

Rayner, M., Hockey, B.A., and Dowding, J. 2003. "An Open Source Environment for Compiling Typed Unification Grammars into Speech Recognizers." In Proceedings of the 10th Conference of the European Chapter of the Association for Computational Linguistics (EACL), Demo Session: Budapest, Hungary.

Aist, G., Dowding, J., Hockey, B.A., Rayner, M., Hieronymus, J., Bohus, D., Boven, B., Blaylock, N., Campana, E., Early, S., Gorrell, G., and Phan, S. 2003. "Talking through procedures: An intelligent Space Station procedure assistant." In Proceedings of the 10th Conference of The European Chapter of the Association for Computational Linguistics (EACL), Demo Session: Budapest, Hungary.

Hockey, B.A., J. Dowding, G. Aist, and J. Hieronymus. 2002. "Targeted Help and Dialogue about Plans." Proc. 40th ACL (demo track). Philadelphia, PA.

Aist, G., Dowding, J., Hockey, B.A., and Hieronymus, J. July 2002. "A Demonstration of a Spoken Dialogue Interface to an Intelligent Procedure Assistant for Astronaut Training and Support." In Proceedings of the 40th Annual Meeting of the Association for Computational Linguistics (ACL), Demo Session: Philadelphia, Pennsylvania.

Hockey, B. A., Aist, G., Hieronymus, J., Lemon, O., and Dowding, J. 2002. "Targeted help: embedded training and methods for evaluation". Proc. Intelligent Tutoring Systems, Empirical Methods Workshop. Biarritz, France and San Sebastian, Spain.

Rayner, M., B.A. Hockey and J. Dowding. 2002. "Grammar specialisation meets language modelling". Proc. 7th ICSLP, Denver, Colorado.

Hockey, B. A., Aist, G., Hieronymus, J., Lemon, O., and Dowding, J. 2002. "Targeted Help: Embedded training and methods for evaluation." Intelligent Tutoring Systems, Empirical Methods Workshop.

Aist, G., and Hockey, B. A. June 2002. "Generating Training and Assistive Dialogues for Astronauts from International Space Station Technical Documentation." Intelligent Tutoring Systems, Workshop on Integrating Technical and Training Documentation: Biarritz, France & San Sebastian, Spain.

Dowding, J., Frank, J., Hockey, B.A., Jonsson, A., and Aist, G. 2002. "Demonstration of a Spoken Dialogue Interface for Planning Activities of a Semi-autonomous Robot." Human Language Technology,

Hockey, B.A. and H. Mateyak. 2002. "Determining determiner sequencing: a syntactic analysis for English". In Owen Rambow and Anne Abeille (eds.) "Tree Adjoining Grammar". CSLI Press, Chicago, IL.

Doran, C., B.A. Hockey, A. Sarkar, B. Srinivas, and F. Xia. 2002. "Evolution of the XTAG system". In Owen Rambow and Anne Abeille (eds.) "Tree Adjoining Grammar". CSLI Press, Chicago, IL.

Campana, E., Baldridge, J., Dowding, J., Hockey, B.A., Remington, R.W., and Stone, L.S. 2001. "Using Eye Movements to Determine Referents in a Spoken Dialogue System." PUI, Florida.

Gorrell, G., Rayner, M., Hockey, B.A., Dowding, J. and Boye, J. 2001. "Variation of Language Models in Three Spoken Dialog Systems." In Proceedings of the 2nd Meeting of the North American Chapter of the Association for Computational Linguistics (NAACL), Demo Session: Pittsburgh, Pennsylvania.

Rayner, M., J. Dowding and B.A. Hockey. 2001. "A baseline method for compiling typed unification grammars into context free language models". Proc. EUROSPEECH 2001, Aalborg, Denmark.

Rayner, M., Gorrell, G., Hockey, B.A., Dowding, J., and Boye, J. June 2001. "Do CFG-Based Language Models Need Agreement Constraints?" In Proceedings of the 2nd Meeting of the North American Chapter of the Association for Computational Linguistics (NAACL), Demo Session: Pittsburgh, Pennsylvania.

Boye, J., B.A. Hockey, and M. Rayner. 2000. "Asynchronous dialogue management: two case studies." Proc. 4th Workshop on the Semantics and Pragmatics of Dialogue. Gotheburg, Sweden.

Rayner, M., B.A. Hockey, and F. James. 2000. "A compact architecture for dialogue management based on scripts and meta-outputs". Proc. ANLP. Seattle, Washington.

Rayner, M., Hockey, B.A., and James, F. May 2000. "A Comparison of the XTAG and CLE Grammars for English." In Proceedings of TAG+ Workshop: Paris, France.

Rayner, M., Hockey, B.A., James, F., Bratt, E.O., Goldwater, S., and Gawron, J.M. 2000. "Compiling Language Models from a Linguistically Motivated Unification Grammar." In Proceedings of the 18th International Conference on Computational Linguistics: Saarbrücken, Germany.

Hockey, B.A. and Fagyal, Z. 1999. "Phonemic Length and Pre-Boundary Lengthening: An experimental investigation on the use of durational cues in Hungarian". Proceedings of International Congress of Phonetic Sciences, San Francisco.

Hockey, B.A., Fagyal, Z. 1998. "Pre-boundary lengthening: Universal or language specific? The case of Hungarian." Proceedings of the 22<sup>nd</sup> Annual Penn Linguistics Colloquium, Philadelphia, USA.

Hockey, B.A., Rossen-Knill, D., Spejewski, B., Stone, M., Isard, S. 1997. "Can you predict response to Yes/No questions? Yes, No, and Stuff", Proceedings of EUROSPEECH'97, Rhodes, Greece.

Doran, C., Hockey, B.A., Hopely, P., Rosenzweig, J., Sarkar, A., Srinivas, B., Nasr, A., and Rambow, O. 1997. "Maintaining the Forest and Burning out the Underbrush in XTAG", ENVGRAM workshop, ACL/EACL, Madrid, Spain.

Hockey, B.A. 1994. "Extra Propositional Focus and Belief Revision", Proceedings of the International Conference on Spoken Language Processing. Yokohama, Japan.

Doran, C., Egedi, D., Hockey, B.A., and Srinivas, B. 1994. "Status of the XTAG system", 3e Colloque International sur les Grammaires d'Arbres Adjoints (TAG+3), Rapport Technique TALANA-RT-94-01. Paris, France.

Hockey, B.A. and Egedi, D. 1994. "A syntactic account of determiner ordering using Lexicalized TAGs", 3e Colloque International sur les Grammaires d'Arbres Adjoints (TAG+3), Rapport Technique TALANA-RT-94-01, Paris, France.

Hockey, B.A. 1994. "Echo questions, intonation and focus", Proceedings of the Interdisciplinary Conference on Focus and Natural Language Processing in Celebration of the 10th Anniversary of the Journal of Semantics. Eschwege, Germany.

Doran, C., Egedi, D., Hockey, B.A., Srinivas, B., and Zaidel M. 1994. "XTAG System - A Wide Coverage Grammar for English" , Proceedings of the 17th International Conference on Computational Linguistics (COLING), Kyoto, Japan.

Hockey, B.A. 1994."English Echo Questions and Narrow Focus", Proceedings of the 18th Annual Penn Linguistics Colloquium. University of Pennsylvania, Philadelphia, Pennsylvania.

Hockey, B.A. and Srinivas, B. 1993. "Feature-Based TAG in Place of Multi-Component Adjunction: Computational Implications", Proceedings of the Natural Language Processing Pacific Rim Symposium. Fukuoka, Japan.

Hockey, B.A. 1992. "Prosody and the Interpretation of Cue Phrases", Eastern States Conference On Linguistics, SUNY Buffalo.

#### **COMPUTER LANGUAGES and SOFTWARE**

PERL, SHELL, UNIX, LISP, PROLOG, XML, Java, Nuance 8.5 Developer's Kit.

#### **NATURAL LANGUAGES**

- English-native speaker
- Spanish-moderate written and spoken competence
- Japanese--non-technical conversational ability
- Hungarian--familiarity as object of research
- Russian-beginner

#### **PROFESSIONAL ACTIVITIES**

- Co-Chair, SIGDIAL 2008
- Program Committee, 2007 ACL Workshops
- Visiting Researcher, NICT, Kyoto Japan, April 2004
- Reviewer: Language and Speech ,AAMAS, ACL, IJCAI, NSF
- Member, ACL, ISCA, LSA, AAAI
- Speaker Series Organizer, Penn Linguistics Club, 1989
- Graduate Student Representative, Department of Linguistics, UPENN, 1989-90, 1991-92
- Program committee, Association for Computational Linguistics--Student Session 1993