

Curriculum Vitae: Bipin Indurkha

Personal:

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Education:

1. University of Massachusetts, Amherst, 1981-1984, Ph.D. in Computer and Information Science; Thesis title: *A Computational Theory of Metaphor Comprehension and Analogical Reasoning*, Thesis Advisor: Dr. M.A. Arbib.
2. Philips International Institute of Technological Studies, Eindhoven, The Netherlands (Affiliated to the Netherlands Universities' Foundation For International Cooperation), 1980-1981, M.E. in Electronics Engineering; Thesis title: *Sentence Analysis Programs Based on Montague Grammars*.
3. University of Bhopal, Bhopal, India, 1974 -1979, B.E. with First Class Honors in Electronics Engineering.

Languages: Hindi (mother tongue), English (fluent), Japanese (fluent), Polish (intermediate), Dutch (elementary).

Experience:

1. Visiting Professor, Department of Computer Science, AGH University of Science and Technology, Kraków (Poland): October 2011 – present. Courses taught included: Cognitive Robotics, Modeling and Simulation, Usability Engineering, Artificial Intelligence.
2. Visiting Professor, Departments of Computer Science and Cognitive Science, Jagiellonian University, Kraków (Poland), October 2012 – present. Courses taught included: Cognitive Robotics (for Computer Science students), Usability Engineering, Philosophy of Cognitive Science, Current Issues in Cognitive Science, Cognitive Robotics (for Cognitive Science students.)
3. Visiting Faculty, Computer Science and Philosophy Departments, Boğaziçi University, Istanbul (Turkey), June-August 2013. Courses taught: Philosophy of Cognitive Science, Artificial Intelligence, Cognitive Robotics.
4. Professor, International Institute of Information Technology, Gachibowli, Hyderabad (India): 2004 – Nov. 2011.
Research Professor: November 2011 – present.
Head, Cognitive Science Lab: Aug. 2007 – present.

Major highlights:

- Organized an international conference on Cognition, Experience and Creativity (Oct. 29–31, 2010): <http://www.iitgn.ac.in/events/CEC.html>
 - Started (first ever in India) annual 3-day National Workshop on Usability *TechEase* since 2009.
 - Set up Cognitive Science Lab, and secured government and industry funding for it.
 - Set up PhD program in Cognitive Science.
 - Set up international research collaborative programs with Utrecht University (Netherlands), Waseda University (Japan), ENSEIHT-IRIT (Toulouse, France).
 - Set up Robotics Club for students, which actively conducts *Robocamps* at IIIT-H and other engineering institutes, holds robotics competitions and holds *Robotics in Education* workshops at local middle and high schools.
 - Undergraduate Program Coordinator: 2006 – 2009. Played a major role in a comprehensive revision of the UG curriculum.
 - Set up and supervised *Engineering and Technology Innovation Center (ENTICE)* 2004-09.
 - Heading and supervising *Center for Societal And Human Applications for AI (SAHAAI)*.
 - Courses taught included: Introduction to Cognitive Science, Cognitive Neuroscience, Research Methods, Usability Engineering, Advanced Artificial Intelligence, Introduction to Robotics, Electronic Circuits, Electronic Workshop, IT Workshop.
5. Co-taught a course on *Cognitive Robotics* with Georgi Stojanov (American University in Paris) at the 14th International Summer School in Cognitive Science, New Bulgarian University, Sofia, July 9 – 5, 2007.
 6. Visiting Researcher, Institute of Cognitive Science, Osnabrück University, Germany, November 13 – 19, 2006.
 7. Faculty of Technology, Tokyo University of Agriculture and Technology, Koganei, Japan.

- Professor, Department of Mechanical Systems Engineering: 2002 – 2004.
- Professor, Department of Computer, Information, and Communication Sciences: 2000 – 2002.
- Associate Professor: Department of Computer, Information, and Communication Sciences: 1995 – 2000.

Responsibilities have included:

- Undergraduate and Graduate courses on Robotics (in English and Japanese)
 - Basic seminar on robotics experiments for 1st year students.
 - Natural Language Processing (in Japanese)
 - Functional Programming: Lisp and Haskell (In Japanese).
 - Introduction to Computers (in English).
 - Committee work: Public relations committee: 2000 – 2002; 2003 – 2004. Responsibilities included:
 - Lecturing at local high schools, and to high school students on campus visits
 - Organizing open campus and other such events
 - “Let’s make robots” event for local primary and middle school children.
2. Adjunct Professor, Computer Science Department, Takushoku University, Tokyo, Japan: September 2003 – March 2004. Taught a course on Robotics for Juniors/Seniors in Japanese.
 3. Research Associate Professor, Department of Computer Science, State University of New York at Buffalo, Buffalo, New York, Sept. 1995 – Aug. 1998.
 4. Research Professor, Department of Electrical Engineering and Computer Science, Tufts University, Medford, Sept. 1994 – Aug. 1995.
 5. Adjunct Professor, Computer Science Department, Boston University, Boston, Sept. 1994 – May 1995. Courses taught included: Computational Linguistics, Artificial Intelligence.
 6. Guest Researcher, Department of Alfa Informatica, University of Amsterdam, Amsterdam, The Netherlands, Oct. 1994 – Feb. 1995.
 7. Visiting Associate Professor, College of Computer Science, Northeastern University, Boston, Sept. 1992 – Aug. 1994. Courses taught included Operating Systems, and Graduate Research Seminar.
 8. Guest researcher, Institute of Computer Science and Society, Albert Ludwig University, Freiburg, Germany, Oct. 12 – Nov. 13, 1992. Responsibilities included teaching a research seminar on Computational Approaches to Metaphor and Analogy.
 9. Guest researcher, Gesellschaft fuer Mathematik und Datenverarbeitung, Sankt Augustine, Germany, Nov. 13 – Nov. 20, 1992.
 10. Assistant Professor, Computer Science Department, Boston University, Boston, Jan. 1985 – Aug. 1992. Responsibilities included:
 - Undergraduate program director: 1988 – 1990.
 - Faculty Advisor to the student chapter of the ACM: 1986 – 1990.
 - Academic advisor for undeclared majors: 1989 – 1990.
 - Courses taught included: Computer Architecture (both at the undergraduate and graduate levels), Artificial Intelligence, Introduction to Computers (for non-CS majors), and graduate research seminars on various aspects of metaphors and analogies in cognition and their computational modeling.

Grants:

1. Multimodal integration of emotional cues by users : Towards a framework for generating multimodal feedback, Samsung Global Research Outreach Program, Sept. 1, 2013 – Aug. 30, 2014 (US\$ 75,600).
2. Designing effective problem-setting gestalts to optimize the performance of crowd workers, Xerox Open Innovation Project, July 2, 2012–July 1, 2015. (US\$ 120,000.)
3. Usability Measurement and Analysis Tool, Jan. 1, 2011, Dec. 31, 2013, Intel Corporation, INR 1,000,000 (approx. US\$ 20,000)
4. Perception Engineering, Ministry of Communication and Information Technology (MCIT) Feb. 2009 – Jan. 2012. INR 14,000,000 (approx. US\$ 350,000).
5. Eye-tracker-based web usability studies, Rediff.com. Phase 1: Oct. 2007 – Mar. 2008, INR 1,000,000 (approx. US\$ 25,000). Phase 2: May 2008 – Mar. 2010, INR 4,000,000 (approx. US\$ 100,000).
6. Cognitive Networks, Department of Science and Technology. Oct. 2009 – Sept. 2012. INR 2,400,000 (approx. US\$ 60,000).
7. Received a grant from the Japan Society for the Promotion of Science (JSPS) to invite Prof. Stuart Shapiro (State University of New York at Buffalo) as a guest researcher, Oct. 8, 2001 – Oct. 28, 2001.

8. Received a grant from the Japan Society for the Promotion of Science (JSPS) to invite Prof. Mark Keane (Trinity College, Dublin) as a guest researcher, March 26, 1998 – April 8, 1998.
9. Recipient of a grant from the Netherlands' Organization for Scientific Research (NWO) to visit University of Amsterdam as a guest researcher, Oct. 1994 – Feb. 1995, Netherlands Guilders *f*15,000.
10. “Investigating the Psychological Basis of Creative Metaphors and Analogies,” Principal Investigator, April 1994 – March 1997, National Science Foundation, USA (International Programs-France), US\$ 12,947.
11. Research Experience for Undergraduates Supplement to the existing NSF grant “Modeling the ‘Redescription’ Process in the Context of Proportional Analogies,” Principal Investigator, Sept. 1992 – Aug. 1993, National Science Foundation, USA, US\$ 4,000.
12. “Modeling the ‘Redescription’ Process in the Context of Proportional Analogies,” Principal Investigator, July 1991 – June 1994, National Science Foundation, USA, US\$ 187,681.

Publications: Two books and over a hundred articles in well-known journals, books and refereed conferences. Details available on request.