
**Opportunities for
Joint International Doctoral Candidates in
Law, Science and Technology
at the
University of Pittsburgh
Intelligent Systems Program**

Kevin Ashley

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Senior Scientist, Learning Research and
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Intelligent Systems Program (ISP) University of Pittsburgh (Pitt)

- ISP: PhD degree-granting program in applying artificial intelligence (AI) in:
 - medical diagnosis, **legal and ethical reasoning**, knowledge representation, machine learning, intelligent tutoring, natural language generation and discourse, planning, case-based reasoning, and problem solving.
 - ISP faculty in schools of Medicine, Business, **Law**, Education, Information Sciences, and Arts and Sciences.
 - Strong connections to research groups in the Departments of Computer Science at Pitt (and Carnegie Mellon University), Biomedical Informatics, Linguistics, and Psychology, **the Learning Research and Development Center (LRDC)**.
 - **ISP AI and Law Group** research on legal modeling and legal decision-making, argument formation, legal information retrieval and intelligent tutoring systems for legal reasoning.
 - Current and former group members have taught and conducted research in both computer science and law programs including the School of Law.
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Short Bio: Kevin D. Ashley

- Professional:
 - Professor of Law, University of Pittsburgh School of Law
 - Senior Scientist at the Learning Research and Development Center
 - Graduate faculty member of Pitt Intelligent Systems Program
 - Adjunct Professor of Computer Science.
 - Co-editor in Chief, *Artificial Intelligence and Law*
 - Fellow of American Association for Artificial Intelligence
 - visiting scientist at the IBM Thomas J. Watson Research Center
 - past President of the International Association of Artificial Intelligence and Law.
 - Education:
 - B.A. in philosophy (magna cum laude) from Princeton University in 1973,
 - J.D. (cum laude) from Harvard Law School in 1976, and
 - Ph.D. in computer science in 1988 from the University of Massachusetts.
 - Expertise: computational modeling of legal reasoning and cyberspace legal issues
 - Publications: *AI and Law*, *Jurimetrics*, *ICAIL*, *Jurix*, *AAAI*, *ICCBR*
 - *Modeling Legal Argument: Reasoning with Cases and Hypotheticals* (MIT Press 1990).
 - Grants: PI on current NSF grants on modeling legal argument and AI-supported peer review
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Opportunities at ISP for LAST-JD Candidates

As Associate Partner, Pitt's Intelligent Systems Program supports:

1. annual seminar on AI and Law at UNIBO
 - offered by Prof. Kevin Ashley in cooperation with Prof. Monica Palmirani
 - Scheduled for 10-14 December 2012
 2. PhD theses of LAST-JD graduate students on topics related to AI and Law,
 - supervised by Ashley
 3. internships for qualified Erasmus Mundus graduate student interns
 - supervised by Ashley
 - hosted at ISP and the Learning Research and Development Center
 4. audit Ashley's AI and Law Seminar, ISP forums, and courses in law, computer and cognitive science.
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Ashley supervises LAST-JD PhD theses on:

- Artificial Intelligence and Law
 - computer models of legal and ethical reasoning
 - computer models of case-based and analogical reasoning
 - automated extraction of information from law-related texts
 - applying AI and Law techniques to legal information retrieval, and intelligent tutoring systems in law and ethics
 - Substantive Legal Topics as related to AI and Law programs
 - intellectual property issues
 - product liability
 - cyberspace and law issues
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Ashley's Research Lines for Internships

Current Research Lines:

1. Computational models of arguing from cases about legal rules
 - value judgments, intermediate legal concepts, hypothetical examples
2. Computer-supported argument diagramming and peer review
 - applying AI to support diagramming, peer reviewing and writing
3. Connecting computational models of legal reasoning to legal texts.
 - automating information extraction from statutory texts for comparative analysis

Proposed Research Lines:

- IARPA: Automating Legal Compliance Monitoring: Pilot Project
 - automating information extraction from case texts for prediction
- NSF: Trends, Consensus and Conflict in Information System Legal Regulation
 - automating information extraction from statutory texts for summarization

Thank you!

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Intelligent Systems Program
<http://www.isp.pitt.edu/>