Brigitte Pientka

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Current Position	**Cornell University**, Ithaca, NY
Sept 97 – present	*Visiting Research Scholar*: Automating the instantiation of universally and existentially quantified variables in specification proofs
Education	
Apr 97	**Technical University Darmstadt (TUD)**, Germany *Diplom "mit Auszeichnung" in Computer Science* minor in *Pedagogics* (comparable to a *Master of Engineering*) avarage grade: 1.04 (highest grade possible: 1.0)
Oct 93 – Sep 94	**University of Edinburgh**, Scotland Department of Computer Science and Artificial Intelligence
Oct 90 – Apr 93	**Technical University Darmstadt (TUD)**, Germany *Vordiplom in Computer Science* (comparable to a bachelor in Computer Science)
Fellowships	
Aug 97 – present	**Fellow of the Gottlieb Daimler – Karl Benz Foundation**
Sep 97	Conference Scholarship by **Intel Foundation**
Research Projects	
Aug 96 – Feb 97	**Master's Thesis**: *Structured Incremental Proof Planning with Meta-Rule Sets* supervised by Prof. C. Walther and S. Gerberding
Oct 95 – Mar 96	**Motivations for choosing careers in engineering** (An interdisciplinary study of young people in Germany) *Research Assistant* with Prof. A. Paul–Kohlhoff, Dept. of Pedagogic (TUD)
Oct 94 – Oct 95	**Automating Termination Proofs** *Research Assistant* with Prof.C. Walther at the Institute of Inference Systems, Technical University Darmstadt (TUD)
May 93 – Sep 94	**A Heuristic for Case Analysis** – Extensions to the existing inductive proof plan supervised by Prof. A. Bundy, A. Ireland, H. Lowe (University of Edinburgh)
Publications	
• **Computer Science**	"Finding substitutions for meta-variables in specification proofs", Dept. of Computer Science, Cornell University, Research Paper (in progress) "Structured incremental Proof Planning" with S. Gerberding *Proceedings of the 21st German Annual Conference on Artificial Intelligence*, 1997 "A Heuristic for Case Analysis", Dept. of Artificial Intelligence, University of Edinburgh, Technical Report No 37, 1995
• **Gender Studies**	*Gender Aspects in Artificial Intelligence* with Alison Adam, in *Journal of the Society for AI and the Simulation of Behaviour*, invited paper in a special issue on women and computing (in preparation), to appear June 1998 "How to prove it" *Proceeding of the 6th IFIP-International Conference on Women, Work and Computerization*, 1997 *How masculine is computer science? – Experiences, impressions and claims*, in A. Paul-Kohlhoff, C. Walter (Hg.): "Eine Frau, die Maschinenbau studiert ist kein Wesen vom Mars …" Studentinnen motivieren Schülerinnen, Darmstädter Beiträge zur Berufspädagogik, Band 17, 1996 (in German) *Augusta Ada Byron – Countess of Lovelace – A computer pioneer*, in Mathilde, Womens magazine for Darmstadt and Region, May/June 1996
Specializations	**Programming Languages**: Common Lisp, ML, Scheme, Prolog, Pascal, Modula-2 **Theorem Provers**: OYSTER/CLAM, NQTHM, NUPRL, INKA

Teaching

Jul 96	**The (social) Impact of the WWW – A course with practical experiments** Teacher on an interdisciplinary team for an internet introductory course at the Technical University Darmstadt
Oct 95 – Mar 96	**Data Structures and Algorithms** (Computer Science III) *Teaching Assistant* for an undergraduate course under Prof. Buchmann at the Technical University Darmstadt

Professional Service

Mar 96 – Jan 97	Member of the Election Commission at Technical University Darmstadt
Aug 95 – Mar 96	Elected Student Equal Opportunity Officer at Technical University Darmstadt
Mar 95 – Mar 96	Elected Member of the Student Parliament at Technical University Darmstadt
Sep 91 – Apr 97	Participation in AStA (Allgemeiner Studierenden Ausschuß), Comitee of Student Representatives at Technical University Darmstadt

Languages: German (native language), English (fluent), French (basic knowledge), Latin (Great Latinum)