

GHEORGHE MURESAN, Ph.D.

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Research Interests and Expertise

- **Information Retrieval** (Personalization, Document Clustering, Language and Topic Modeling, Adaptive and Collaborative Systems, Mediated/Assisted IR, User Behavior in Information-Seeking Environments, User and Context Modeling), **Human-Computer Interaction** (IR User Interfaces and Information Visualization), **Cognitive Psychology** (Learning and Information Seeking Models), **Machine Learning**, **Data Mining**
- Object-Oriented Technology, Design Patterns, Software Frameworks, Agile Methodologies, UML, XML, Internet Protocols/Programming, Concurrent/Distributed Programming, Database Design; Java, C++, Python, R, SPSS

Work Experience

2002 – present Assistant Professor, Rutgers University, U.S.A.

- Developed an integrated approach to Interaction Modeling and Log Analysis for Interactive Information Retrieval, based on combining UML and XML (Published in *SIGIR 2006* Workshop and *ASIST 2006* Workshop)
- Provided a review on Evaluation of Exploratory Search Systems (Published in *SIGIR 2006* Workshop)
- Developed and used an evaluation framework to compare the effectiveness of various Sources of Query Expansion Terms (Published in *ASIST 2006* conference proceedings and poster)
- Developed and evaluated predictive models of Document Genre for Personalized Information Retrieval (Published in *HICSS 2006* conference proceedings)
- Investigated the effect of Document Readability, and of a Searcher's Familiarity with a Topic on Personalized Information Retrieval (Published in *HICSS 2006* conference proceeding, and as *ASIST 2005* poster)
- Led Rutgers research groups in Interactive and HARD tracks of TREC in 2003, 2004, 2005 (Published in proceedings of *TREC*); supervised 3 PhD dissertations in IR and many term-long research projects
- Led Mediated IR project, designed and built four user interfaces, designed and implemented the infrastructure software, designed and conducted user study; analysis of results in progress
- Developed a categorization on Measures for Web Search Effectiveness (Published in *WWW 2004* workshop)
- Compared the effectiveness between Humans and Machines in the Topic Distillation Task (Published in *SIGIR 2004* conference proceeding)
- Developed courses and programs and taught *Information Retrieval*, *Computer Concepts*, *Object-Oriented Programming*, *Advanced Programming*, and *Information Technology Applications* to Ph.D., Master and Undergraduate students; and served the Computer and Information Sciences professions by giving talks and lectures, and organizing and reviewing research projects at various organizations and institutions in the U.S.A., Europe, and Asia

2001 Part-time Lecturer, The Robert Gordon University, U.K.

- Taught *Computer Systems*, *Applications Software* and *Java Object-Oriented Programming* to undergraduates

1999 – 2000 Research Assistant, The Robert Gordon University, U.K.

- Designed, developed and evaluated *WebCluster* and *ClusterBook*, prototypes of a system that provides personalized, mediated access to relevant information on the World Wide Web (Papers and demos at *ECDL 2001*, and *ACM-SIGIR 2000, 1999*)

1996 – 1997 Teaching Assistant, The Robert Gordon University, U.K.

- Gave lectures and tutorials in *Object-Oriented Programming with C++* to M.Sc. and undergraduate students
- Designed and coded an Electronic Conferencing System and used it as support for tutoring *Design Patterns* and *Object-Oriented Databases* to M.Sc. students

1994 – 1996 System/Applications Programmer, The Robert Gordon University, U.K.

- Administered the School Novell and Sun networks
- Installed and configured various software packages in support for teaching and research

1994 Teaching Assistant, University of Aberdeen, U.K.

- Gave tutorials and lab practices in *Assembly Language Programming*, *Data Communication*, and *Data Structures & Pascal Programming*
- Designed and implemented demonstration projects for the *Data Communication* and *Object-Oriented Analysis, Design & Programming* courses

1992 – 1993 Computer Engineer, Dacia-Felix Bank, Cluj-Napoca, Romania

- Designed and implemented banking software and databases
- Implemented an IT strategy for the bank, its data communications and security
- Administered the computer network

Education

1996 – 2002 Ph.D. in Computer Science, The Robert Gordon University, U.K.

- Thesis: “Using Document Clustering and Language Modeling in Mediated Information Retrieval”
- Proposed and evaluated Mediated Access, a novel interaction model for Information Retrieval, based on Document Clustering and Statistical Language Models (Published as Ph.D. dissertation, 2002, as paper in *JASIST*, 2004, 55 (10) and in *JCDL 2002* workshop)

1987 - 1992 Diploma of Computer Engineer, Technical University of Cluj, Romania

- Grade 10/10 in diploma exam; GPA: 9.65/10 (2nd out of 80); 1st in the admission exam
- Thesis: “Deductive System with Multiple Resolution Strategies”
- Major projects in Artificial Intelligence (“Scheduler for Transformations in the Blocks World”), Computer Aided Design (“Simulations of a Logical Circuit and of an Electric Motor”), Compilers (“Optimisation of the Intermediate Code”), Computer Graphics (“Graphical Grammars for Simulating Plants Growth”)

1982 - 1986 Baccalaureate - Mathematics and Computer Science, Computer Science High School "Tiberiu Popoviciu", Cluj-Napoca, Romania

- Grade 9.62/10 in diploma exam; GPA: 8.99/10; 1st in the admission exam

Awards and Grants

2005, 2006	FASIP Award – Rutgers University, U.S.A.
2004 – 2007	Research Council Grants – Rutgers University, U.S.A.
2004 – 2007	SCILS G2GG (Grant to Get Grants) – Rutgers University, U.S.A.
2004	Research Development Initiative – the Scottish Higher Education Funding Council, U.K.
2004	E.U. Sixth Framework Programme travel grant
2004	Undergraduate Research Grant – Rutgers University, U.S.A.
1997-2001	PhD Sponsorship - UBILAB, Union Bank of Switzerland, Zurich, Switzerland.
1996-1997	PhD Studentship - the School of Computing and Mathematical Sciences, the Robert Gordon University, U.K.
1993	Soros Studentship for Summer School, London Guildhall University, U.K.
1991	Studentship for Course in Advanced Programming - Budapest Technical University, Hungary
1982-1992	Various awards at local and national level of student competitions (Olympiads) in Mathematics, Programming, Physics, Mechanics and French – Romania
1986	Third prize at the national level in the Romanian Student Symposium for the paper/demo "Computer Games - Strategy and Implementations" – Romania

Other

Languages: Romanian (native), English (advanced), French (advanced)

Immigration status: U.S. permanent resident (British-Romanian dual citizenship)