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# Amrish Vyas

## RESEARCH INTERESTS:

### Intelligent Systems

Application of Agent Systems to various business problems (eBusiness, CRM, etc.); knowledge management; organizational decision making; and context-aware computing. Deception detection in agent societies. Human-Agent interaction.

### IS/IT and Organizations

Roles and Impact of IS/IT on organizational change (culture; relationships, growth). Creations and application of decision support systems. Architectures and applications of CRM systems.

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## EDUCATION

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| Fall 2003-<br>Present     | University of Maryland Baltimore County, Baltimore, MD.<br>Ph.D. Student (Information Systems), <i>Department of Information Systems</i>                                 |
| Fall 2002-<br>Spring 2003 | Stevens Institute of Technology, Hoboken, NJ. (Transferred to UMBC in Fall 2003)<br>Ph.D. Student (Information Management), <i>Howe School of Information Management</i> |
| May 2001                  | Hofstra University, Hempstead, NY.<br>M.B.A. (Business Computer Information Systems), <i>Frank G. Zarb School of Business</i>  |
| May 1998                  | Maharaja Sayajirao University, Vadodara, India.<br>L.L.B. (General Labour Laws), <i>Faculty of Law</i>   |
| May 1995                  | Maharaja Sayajirao University, Vadodara, India.<br>B. Sc. (Chemistry, Physics, Math), <i>Department of Chemistry, Faculty of Science</i>                                 |

## AWARDS & SCHOLARSHIPS

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- [1] *Department Graduate Assistantship*, Department of Information Systems, University of Maryland Baltimore County.
- [2] *Dean's Graduate Tuition-Waiver Scholarship for International Students*, Frank G. Zarb School of Business, Hofstra University.

[3] *High-School Honor Roll Tuition-Waiver*, Alembic Vidhyalaya, India.

## EXPERIENCE

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### ACADEMIC

**Fall 2004- Present** **University of Maryland Baltimore County, Baltimore, MD.**

*Graduate Assistant - Instructor*

Preparing lecture materials, exams, case studies, exercises, discussions, and other material or grading instruments were general responsibilities. In addition, I also provided a feedback and support mechanism for athletes in the class.

Teaching Timeline	<u>Spring 2004</u>	<u>Fall 2004</u>	<u>Spring 2005</u>	<u>Summer 2005</u>	<u>Fall 2005</u>	<u>Spring 2006</u>
	<i>IS 125</i>	<i>IS 125</i>	<i>IS 125</i>	<i>IS 300</i>	<i>IS 125</i>	<i>IS 300</i>
Course Descriptions	<i>IS 125-Information Systems Logic &amp; Structured Design-A Problem Solving Approach</i>					

This course teaches students how to create structured solutions along with the relevant logic to various business problems as a basis for development of information systems/applications. During the instruction concepts of data representation and data modeling such as flow-charts, logic diagrams, data dictionaries, interactivity charts, algorithms, etc. are discussed. The course is designed to provide students with insights for object oriented system design.

*IS 300-Management Information Systems-An overview perspective*

This course is designed to provide an overview of design, implementation, and strategic use of modern, computer-based information systems in business, data processing, office automation, information reporting, and decision-making. Various information systems security measures and controls are discussed within the scope of this course. Students are also provided with insights for aligning business and IT efforts.

**Spring 2006** **NIIT Ltd., Atlanta, GA.**

*Course Writer*

I was responsible for creating content for MG 513, an online Management Information Systems course for MBA program offered by ITT Tech., Inc. I developed course content including course description, course objectives & enabling objectives, lesson strategies & outline, an array of topics and related content. I was also responsible for developing grading instruments such as online discussions, quizzes, exams, projects, case studies, etc.

**Fall 2002- Spring 2003** **Stevens Institute of Technology, Hoboken, NJ**

*Research Assistant*

I was assigned to assist a team of Assistant Professors in their research efforts including formulation of grant proposals for projects to be funded by the government agencies like NSF. I contributed to the research efforts in the area of Intelligent Agent Technology and Workflow. During this tenure I developed an "Agent Research History Time-Line" which is available to view at: <http://userpages.umbc.edu/~amrish1/research.htm>

**Fall 1999-  
Spring 2001**     **Program for Academic Learning Skills, Hofstra University, Hempstead, NY.**  
*Graduate Assistant*

I was made responsible for tutoring students with academic learning disability with variety of their academic needs including proctoring their exams. I also volunteered for developing tools and measures for gauging students' growth in the program. As a part of my duties I also assisted with administrative tasks in the department including reporting activities.

**Fall 1997-  
Spring 1998**     **Convent Educational Services, Vadodara, India.**  
*PT-Instructor*

As a part-time instructor for a private coaching institute I was responsible for teaching high-school level mathematics and science subjects (Chemistry, Physics, and Biology) to 9<sup>th</sup> and 10<sup>th</sup> grade students. I also designed and graded quizzes, mid-term as well as final exams.

NON-  
ACADEMIC

**2001-2002**     **Gujarat Times, Inc., New York, NY**  
*PT-CRM Associate*

I was mainly involved with developing Customer Relations strategies for the pool of subscribers for three native Indian language newspapers. As a part of my efforts I also designed databases and contributed to building the archival system for all the three newspapers.

**1999-2000**     **Computer Studies, Hofstra University, Hempstead, NY.**  
*Graduate Assistant*

I maintained student databases and grading systems for the courses offered by the department using MS-Access, Excel, and VB-based applications. I also assisted in office reporting systems. I volunteered and was trained for advising adults with their continuing education needs and what courses to register for.

**1995-1997**     **Crompton Greaves Ltd., Vadodara, India**  
*Marketing Executive*

Launching new products, develop marketing schemes for existing products, maintaining organizational relationships with business partners such as distributors, retailers, suppliers were some of the duties I performed. In addition I also volunteered for working as a liaison between IT team & Sales department for the Vadodara branch. Within the scope of the latter responsibilities I played an instrumental role in developing inventory tracking, stock planning, logistics information systems using MS-Access and Excel.

## PUBLICATIONS

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- [1] Vyas, A. & Zhou, L. (2005). On Detecting Deception in Agent Societies. *Proceedings of the 2005 IEEE/WIC/ACM International Conference on Intelligent Agent Technology*, Compeigne, France, Sept. 19-22, pp. 491-494.
- [2] Vyas, A. & Yoon, V. (2005). Information Management in Mobile Environments Using Location-Aware Intelligent Agent System (LIA). In *Handbook of Research in Mobile Business: Technical, Methodological and Social Perspectives*. Ed. Bhuvan Unhelkar, Idea Group Publications, In print.

- [3] Vyas, A. & Ozok, A. (2005). Intelligent Human-Agent Interaction: Attributes That Need To Be Honed. *Proceedings of HCI International Conferences*, Las Vegas, USA, Aug. 21-27.
- [4] Vyas, A. & Ozok, A. (2005). Usability of Agent Technology in m-Commerce. *Proceedings of HCI International Conferences*, Las Vegas, USA, Aug. 21-27.
- [5] Vyas, A. & Yoon, V. (2004). Location-Aware Intelligent Agent System (LIA) for Publish/Subscribe Middleware in Mobile Environments. *Proceedings of 3<sup>rd</sup> Workshop on e-Business*, Washington DC, USA, December 11-14, pp. 75-81.
- [6] Vyas, A. (2002). Agent Research History Time-Line in Tabular and Graphical Form: Existing Research Synthesis. Available to view at: <http://userpages.umbc.edu/~amrish1/research.htm>

## ACADEMIC PROJECTS

- [1] “On Formal Role of Agents In eBusiness Environments”. IS 760 Research Paper, UMBC.
- [2] “Adaptive Interfaces and Intelligent Agents”. IS 760 Seminar Presentation, UMBC.
- [3] “Gender Differences in Accessing the Internet in USA”. IS 804 Project, UMBC.
- [4] “Software Agent Technologies for CRM”. Research Paper, MGT 780, Stevens Inst. of Technology.
- [5] “Automated *Loan Processing* System for SIBD Division, Bank of NY”. BCIS 206 Project, Hofstra.
- [6] “Customer Relations Through Analytical eCRM”. Capstone Graduate Research Paper, Hofstra.

## MEMBERSHIPS

*President, Graduate Organization of Information Systems (GO IS)*, Dept. of IS, UMBC, USA.

*President, Alembic Alumni Association (AAA)*, Alembic Vidhyalaya, Vadodara, India.

Visit AAA at: [www.alembicalumni.org](http://www.alembicalumni.org)

Member, IEEE Computer Society (IEEE), USA.

Member, Association of Computing Machinery (ACM), USA.

Member, Association of Information Systems (AIS), USA.

Member, Alumni Club, Hofstra University, USA.

## REFERENCES

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Dr. Victoria Yoon  
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