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I am currently a PhD candidate studying Information science at the University of Michigan - Ann Arbor. My area of interest is in Information Retrieval (IR), with a particular focus on education systems.

EDUCATION

| PhD Information (In-Progress) CGPA: 3.78/4.00 | 2014 - Present |
|--|----------------|
| School of Information | |
| University of Michigan, Ann Arbor | |
| BSc Engineering | 2010 - 2014 |
| School of Electrical Engineering and Computer Science (SEECS) | |
| National University of Sciences and Technology (NUST), Islamabad | |

WORKSHOPS & ONLINE COURSES

| Attended Search as Learning (SAL) Workshop at SIGIR 2016 | 2016 |
|--|------|
| Conducted IEEE Flash Workshop for Engineering Students at NUST | 2011 |
| Participated in IEEE Android Development Workshop | 2011 |
| Machine Learning Online Course - Stanford University | 2011 |
| Introduction to Databases Online Course - Stanford University | 2011 |

WORK EXPERIENCE & ASSISTANTSHIP



| Graduate Student Instructor at University of Michigan | 2016 - Present |
|--|----------------|
| Research Assistant at University of Michigan | 2014 - 2016 |
| Teaching Assistant for course on Engineering Economics at NUST | 2012 |
| Summer Internship at NUST - Android Development | 2012 |
| Paid Research Internship - Android-Based Home Automation | 2012 |
| Project sponsored by National Radio and Telecom Corporation (NRTC) | |
| Research Internship - iTeach, uLearn | 2013 |
| Project sponsored by National Foundation for Resource Development (NFRD) | |

RESEARCH PAPERS

| Syed, R. and Collins-Thompson, K. (2016). Optimizing search results for educational goals: | 2016 |
|---|------|
| Incorporating keyword density as a retrieval objective. In Second International Workshop on | |
| Search as Learning (SaL 2016). ACM. (paper) (slides) | |

Collins-Thompson, K., Rieh, S. Y., Haynes, C. C., & Syed, R. (2016, March). Assessing Learning
Outcomes in Web Search: A Comparison of Tasks and Query Strategies. In *Proceedings of the*2016 ACM on Conference on Human Information Interaction and Retrieval (pp. 163-172). ACM.
(paper)

RESEARCH/SEMESTER PROJECTS

| Optimizing Search Ranking for Educational Goals (In Progress) | 2015 - Present |
|---|----------------|
| Real-time Intrinsically Diverse Search engine | 2014 - 2015 |
| Autonomous Landmine Detection & Mapping System | 2014 |
| Accelerometer-based Virtual Archery | 2013 |
| Android Home Automation System | 2012 |
| Online Crime Reporting System | 2012 |
| Fast Food Order and Delivery System | 2007 |

COMPUTER SKILLS </>

- General Purpose Programming
 C, C++, Java, Python, Visual Basic 6.0
- Data Processing Programming R, Matlab, Octave
- Web Development (Client-side) HTML5, CSS3, Javascript, JQuery, Flash
- Web Development (Server-side) PHP, MySQL, SQLite
- Mobile Development Android
- Hardware Development Assembly Code, Embedded C, Raspberry Pi