



University of
Pittsburgh

Informatics and Networked Systems
School of Computing and Information

You are receiving this email because you are enrolled in the MSIS/MST graduate degree programs within the Department of Informatics and Networked Systems at the School of Computing and Information. Each weekly newsletter will feature important updates on career/academic and job opportunities, department and school events, enrollment guidance and upcoming academic deadlines.



Spring Term Office Hours-Starting Tuesday, January 31, 2023:
Available in Person in IS Building Room 706
Tuesday: 2pm-4pm
Thursday: 11am-12pm or 1pm-2pm

Announcements

Graduate Student Elevator Pitch Workshop

Wednesday, February 8 | 3 p.m. Third Floor Theatre Area, Information Sciences Building
MSIS/MST Students: Please join us for a one-hour career workshop to help you develop your elevator pitch! Elevator pitches are a succinct way to share who you are, what you do, and what you're interested in. They can help you build stronger connections and market yourself at:

- Career Fairs
- Job Interviews
- Networking Events
- and more!

Emily Bennett, SCI's Manager of Experiential Learning will host this workshop. James Petraglia, DINS Department and Graduate Support Administrator, will help facilitate discussion and questions.

Events

DINS Seminar Series

Speaker: Edmond Awad, Senior Lecturer in the Department of Economics and the Institute for Data Science and Artificial Intelligence, University of Exeter

February 8, 2023

11:00 am to 12 noon

Virtual -- more details to come!

You can find additional information on the DINS Seminar Series here: [DINS Seminar Series: 2022-23 | Department of Informatics and Networked Systems | University of Pittsburgh](#)



Faculty Colloquium: "Socially Responsible and Factual Reasoning for Equitable AI Systems"

Abstract: Understanding the implications underlying a text is critical to assessing its impact. This requires endowing artificial intelligence (AI) systems with pragmatic reasoning, for example to infer that the statement “Epidemics and cases of disease in the 21st century are “staged”” relates to unfounded conspiracy theories. In this talk, I discuss how shortcomings in the ability of current AI systems to reason about pragmatics leads to inequitable detection of false or harmful language. I demonstrate how these shortcomings can be addressed by imposing human-interpretable structure on deep learning architectures using insights from linguistics.

In the first part of the talk, I describe how adversarial text generation algorithms can be used to improve

model robustness. I then introduce a pragmatic formalism for reasoning about harmful implications conveyed by social media text. I show how this pragmatic approach can be combined with generative neural language models to uncover implications of news headlines. I also address the bottleneck to progress in text generation posed by gaps in evaluation of factuality. I conclude with an interdisciplinary study showing how content moderation informed by pragmatics can be used to ensure safe interactions with conversational agents, and my future vision for development of context-aware systems.

Bio: Saadia Gabriel is a PhD candidate in the Paul G. Allen School of Computer Science & Engineering at the University of Washington, advised by Prof. Yejin Choi and Prof. Franziska Roesner. Her research revolves around natural language processing and machine learning, with a particular focus on building systems for understanding how social commonsense manifests in text (i.e. how do people typically behave in social scenarios), as well as mitigating spread of false or harmful text (e.g. Covid-19 misinformation). Her work has been covered by a wide range of media outlets like Forbes and TechCrunch. It has also received a 2019 ACL best short paper nomination, a 2019 IROS RoboCup best paper nomination and won a best paper award at the 2020 WeCNLP summit. Prior to her PhD, Saadia received a BA summa cum laude from Mount Holyoke College in Computer Science and Mathematics.

Monday, February 6 at 11:00 a.m. to 12:00 p.m.

130 North Bellefield, 538/539 Conference Room

Career/Academic Opportunities

Cyber Security Analyst

Application deadline

December 31, 2023 12:00 AM

Tata Consultancy Services

Understanding on OSI network model and network protocols such as TCP/IP and keeping up to date with the latest security and technology developments

- Understanding of TCP/IP, computer networking, routing, and switching
 - Knowledge on Windows, UNIX, and Linux operating systems
 - Malware analysis and forensics investigation
- Understanding/ differentiation of intrusion attempts and false alarms.
 - Firewall and intrusion detection/prevention protocols
 - Understanding architecture, administration, and operating systems
- Monitor for attacks, intrusions and unusual, unauthorized, or illegal activity.
 - Investigate security alerts and provide incident response.
- Liaise with stakeholders in relation to cyber security issues & provide recommendations.
- Use advanced analytic tools to determine emerging threat patterns and vulnerabilities.
- Comprehensive knowledge of application vulnerability management identification, analysis, metrics and reporting tools as well as processes enabling proper governance, risk and compliance.
 - Assist in defining and continually improving vulnerability risk management requirements for global IT support organizations.
- Establish relationship with internal and external customers and partner with them to monitor and maintain security controls across corporate and business applications and devices.

- Interact with customers or other stakeholders to aid in the resolution of vulnerabilities that have been identified.
 - Applying good risk-based judgement to complex problems.
- Evaluation of threats and risk to business operations resulting in security solutions that appropriately balance cost and risk mitigation.
 - Ability to think analytically and to understand and communicate quantitative information.
- Strong written and communication, data analysis and problem resolution skills. Able to integrate and correlate large amounts of data to identify complex patterns and trends. Required Technical Skills:
 - Security Governance
 - Risk and compliance
 - Threat, risk analysis and mitigation
 - Networking, malware analysis
 - Vulnerability Assessment
 - Security events monitoring
 - System Administration (Windows, Linux, Unix, MacOS, iOS)
 - Authentication/Access Controls

Ask a peer about their experience

[Cyber Security Analyst | Tata Consultancy Services | Handshake \(joinhandshake.com\)](#)

ETL Testing

Tek Tree, Inc.

Remote ·
Delaware City, DE

Application deadline

February 14, 2023 3:30 PM

JOB DESCRIPTION:

- Knowledge of dimensional modeling and data warehouse concepts, such as star schemas, snowflakes, dimensions, facts
- Ensure all sign offs on deliverables (overall test strategy, test plan, test cases,) and that testing meets governance requirements
 - Responsible for ensuring quality of their work the work of the entire development team
- Strong experience in of the following technologies preferred –Web API (MS ASP.Net), MVC, WCF, HTML5, CSS, JavaScript, JSON, SOAP, REST, JQuery, Java , .Net Framework, C#, Ab Initio
 - Create SIT test cases/test data and perform Test execution
- Review Data Models, Data Mappings, Architectural Documentation to create/execute effective SIT Test Plans and SIT test cases
- Validates data by running queries in the database and verify that the results match the expectations

- Analyzes and troubleshoots erroneous results, determines the root cause of defects, logs the defects in HP Quality Center/ALM and enables defect management, including working with the development team on the resolution of Software related defects
- Works closely with software development team (Business Analysts, Developers & other testers) to ensure timely and effective testing effort
 - Writing queries to extract data for test case data comparison
 - Review and understand BRDs/SRDs
 - Ability to transform complex Business logic into SQL or PL/SQL queries
 - Ability to run, read from, debug batch processes
- Works closely with the Software development team (Business Analysts, Developers & other testers) to ensure timely and effective testing effort
 - Creating requirements traceability matrix (RTM)
 - Perform Vibration testing, Shock test, Vibration Random test on sealed Relays
 - Perform Internal Moisture, Screening Run-In (Miss Test), and Burn-In on sealed relays
 - Perform all Environmental Testing as required
- Will be responsible to ensure quality of process and measurements are acceptable in accordance with the specifications
 - Computer entries, such as time labor and job assignments for inventory control

[\(21\) ETL Testing | Tek Tree, Inc. | Handshake \(joinhandshake.com\)](#)

Enrollment Dates

February 13, 2023-Summer Term Open Enrollment Begins

*For those planning on graduating in Spring of 2023 (otherwise known as term 2234 in PeopleSoft), you must apply to graduate to get your diploma (**and, of course, successfully complete all appropriate coursework!**)*

Here is the timeline for Term 2234:

Graduation Application Opens – 10/1/22

Graduation Application Late Fee Begins – 12/1/22

Graduation Application Closes – 4/1/23

Final Day for ETD Paperwork & D-Scholarship Upload – 4/24/23

Please be advised that if you have not yet applied to graduate, you will be charged a \$25 late fee. I would also be aware of the ETD Paperwork and D-Scholarship deadline ([Complete Your Thesis or Dissertation | School of Computing and Information | University of Pittsburgh](#)) if you are working on a Master's Thesis.

*******Please be advised, that if you have any questions, you
can always reach out to me via the email and phone number
below. *******

Regards,

James Petraglia (Pa-trail-ya)