Student Working Group
NEWSLETTER
June 2022

AMIA INFORMATICS PROFESSIONALS. LEADING THE WAY.

ANNOUNCEMENTS:

1 AMIA STWG SURVEY

2 CONGRATULATIONS GRADUATES!

3 STUDENT OPPORTUNITIES

4 STUDENT SPOTLIGHT

5 KNOW-YOUR-LEADERS: STWG CHAIR

SAVE THE DATE

Nov 5-9 2022 AMIA ANNUAL SYMPOSIUM

REACH OUT TO US

AMIASTUDENTWG.SLACK.COM
Send us a request to join our slack channel!

🐦 @AMIASTWG

✉ Email the Co-Editor
MXH2000@CUMC.COLUMBIA.EDU

Welcome to the AMIA Student Working Group newsletter: **June edition!**
This month, we want to hear from you about the student working group - fill the <u>AMIA STWG survey</u> to connect with us!

Congratulations to all the Spring Graduates! We wish you all the best as you take your next steps, and wherever that leads we hope that your informatics insights will lead to stronger inclusive and interdisciplinary teams.

Student Opportunities

Diversity, Equity and Inclusion (DEI) Committee Volunteers

AMIA DEI is seeking volunteers to support projects in development by the five subcommittees: **Recruitment; Retention and Advancement; Education, Governance, and Policy; and Advancement of Health Equity and Antiracism in Healthcare**. To learn more, <u>please submit your volunteer interest form here</u>.

Call for AMIA Informatics Summit Reviewers

The **AMIA 2023 Informatics Summit Scientific Program Committee (SPC)** leadership is seeking self-nominations from AMIA members who are interested in joining the SPC. The AMIA 2023 Informatics Summit is March 13-16, 2023, in Seattle. <u>Submit your self-nomination by June 15.</u>

AMIA High School Scholars Program

High school students who have participated in educational or research activities at biomedical informatics programs are invited to submit presentations and abstracts for consideration in the High School Scholars Program and Competition at the 2022 AMIA Annual Symposium. <u>Submissions open now!</u>

June 2022 spotlight

Humayera Islam
PhD Student
University of Missouri - Columbia
Institute for Data Science and Informatics
AMIA Summit Student Paper Competition Winner

How did you become interested in informatics?
Working towards finding solutions to pressing healthcare problems is my biggest motivation for research. I am passionate about working with data and love building bridge between artificial intelligence (AI) and clinical decision making, which brought me to the field of informatics.

What are your current research interests?
My current research interests involve the development of an interpretable, actionable, and usable AI in addressing clinical problems and transforming reactive interventions to personalized, proactive care pathways. My doctoral research focuses on patient journey modeling and patient-specific risk factor identification for early detection of diabetic kidney disease using electronic health record data and advanced AI. I am also working on the development of decentralized prediction engines based on federated learning mechanisms utilizing data generated by independent health systems, which has the potential to overcome ethical and legal concerns of data sharing.

Describe your paper that won the Student Paper Competition.
The main objective of our paper was to propose a data-driven machine learning framework that can aid data-driven AI discoveries at siloed healthcare sites. There are many healthcare institutions who are deprived of any access to large databases. Since the only available data for them are their own clinical records, any data-driven research they conduct can introduce demographic biases. We propose to use the concepts of transfer learning to transfer pretrained models built from established network of hospitals to the siloed hospitals without any data leaving the firewalls of the hospitals. Our greater goal is to facilitate the participation of siloed healthcare sites in building data-driven AI applications that can improve the health outcomes and quality of care.

What advice would you offer students in or just starting in informatics?
It is imperative to attain the ability to disseminate the knowledge that we generate from our research. The two keyways of knowledge dissemination are scientific writing and verbal presentations. My advice to all the informatics students would be to invest time in honing these skills during the graduate life. Keep investing time in writing journals and articles, while keep practicing the art of presenting your work to broader audience.

Zubin Khan
Chair, AMIA Student Working Group

AMIA STUDENT WORKING GROUP (STWG)

Background and Research Interests

I am the current Chair of AMIA - Student Working Group and a recent graduate of the CDC Public Health Informatics Fellowship Program (PHIFP), where I was assigned to a field location at the Utah Department of Health as part of the CDC's Population Health Workforce Initiative. I served as Chief Health Strategist/Field Informatician and worked on projects such as data modernization, health interoperability (FHIR), population health, and the state's COVID-19 response. During my fellowship extension, I also led informatics efforts on the Federal COVID-19 response at the CDC for the Vaccine Task Force.

I have also worked in the field of public health informatics with various international governments and non-profit organizations such as The Centers for Disease Control and Prevention (CDC), USAID, Utah Department of Health, Henry Jackson Foundation (HJF), and National Institute of Virology (Government of India).

I am very passionate and interested in the field of Global Health, Digital Health, and Public Health Informatics.

STWG Chair Responsibilities

As a Chair, I convene, preside over, and set the agenda for member and leadership team meetings. Provide leadership along with potential collaboration opportunities for informatics students around the world. Represent and serve as the Student Working Group's liaison at AMIA and other working groups.

STWG Mission and Goals

AMIA's Student Working Group provides a forum in which informatics students can share their educational experiences and perspectives, as well as information about career and educational opportunities. The STWG also facilitates student interaction with AMIA members that are mid-career and senior professionals and increases the national visibility of medical informatics as an academic discipline and viable career.

What opportunities and benefits does the STWG have for students?

STWG leadership is continuously working towards serving the community. Student should keep an eye out on emails, AMIA Connect, the newsletter, Slack, and social media for upcoming opportunities.

Current opportunities include:
- Student Outreach survey Activities to better understand student's needs.
- A special episode in collaboration with AMIA For Your Informatics (FYI) Podcast.
- Collaboration with other AMIA working groups.
- Recruitment for AMIA/HL7 Project.
- Other collaborations and upcoming recruitment drive to work with AMIA
- Diversity, Equity, and Inclusion Task Force communications subcommittee members.

Benefits for student members:
- Reduced yearly membership fees with similar access to standard member benefits
- Student paper competitions at conferences
- "Student Design Challenge" at Annual Symposium
- Representation on AMIA Board of Directors.
- Student Working Group (ST-WG) Social events at conferences
- JAMIA student editorial board and student-led journal club
- and much more! Keep an eye on emails, AMIA Connect communications, newsletter, slack channel, etc.

Who should join the STWG?

Anyone with an interest in Informatics are welcome to join the group. We encourage students, mentors, researchers, and Informatics enthusiast to join our community.

How do I join the STWG?

There are many different ways you can connect/join STWG:
- AMIA Connect (official message board for various AMIA communities)
  - connect.amia.org; Click "SIGN IN" at top right for all options
  - http://connect.amia.org/ST-WG for Student Working Group

- Please join our Slack Channel, if you haven't already. Come and hang out with us, we love to see new faces!
  - Email sbt12@pitt.edu or mxh2000@cumc.columbia.edu

- Follow us on Twitter: AMIA Student WG (@amiastwg)