

Newsletter

Working
Group

Student

October 2025



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Room sharing @ AMIA- [complete this form](#) by
10/31 to be matched with a roommate

[RSVP](#) for the ACMI Speed Networking Mixer

[Participate](#) in WISH@AMIA

[Apply](#) for the JAMIA Student Editorial Board:
Applications due December 5, 2025

[Find](#) a postdoctoral fellowship

Save The Date:

Annual Symposium

November 15-19, 2025
Atlanta, GA

Amplify Informatics Conference

May 18- 21, 2026
Denver, CO

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STUDENT SPOTLIGHT



Sanya Bathla Tanaya

Postdoctoral Scientist at Johnson & Johnson Innovative Medicine

1st Place Winner of the 2025 Informatics Summit Student Paper



Please briefly describe your Student Paper Competition paper.

Our recent paper aimed to predict potential interactions between natural products and prescription drugs using knowledge graph (KG) embeddings. It was a part of my PhD research where I constructed a natural products-focused KG combining data from scientific literature, natural product and drug databases, and biomedical ontologies related to chemicals, genes, diseases to be able to better understand the potential mechanisms of the interactions. The paper described an approach to predict interactions by training embedding models with entities and relations in the KG and a machine learning model to train and evaluate known interactions from public databases.



What impact do you hope your work will have?

Broadly, my research focused on helping biomedical researchers understand the mechanisms of natural product-drug interactions and prioritize the natural products with potential safety concerns. As there are a lot of products available in the market, it is important for both healthcare providers and consumers to be aware of the impact of co-consumption of products with prescription drugs and I hope that utilizing data-driven tools that synthesize the information and provide necessary details to researchers, healthcare professionals, and consumers can help prevent major adverse effects.



What does your research process look like?

The first step in the research process is to identify the hypothesis you want to test and the scope of the research. Then, I would look for prior research in the topic and related sub-areas to find other approaches that have been successful as well as any gaps that have been identified. For instance, there is limited research in prediction of natural product-drug interactions with embeddings. However, this is a common research topic in drug-drug interactions so the learnings from the methods can be applied. Some of the challenges with the application include the limited availability of ground truth data as it must be manually curated and synthesis of information from variable sources across decades of research.



What advice do you have for students starting in informatics?

To be curious and open about the research you want to do, and find people who can support you through the journey. I have been lucky enough to focus on interesting topics and questions throughout my graduate students with supporting mentors and it makes a lot of difference. Also, whether or not your research topic is already decided, it will inevitably take a different form as you work more on it so don't let that stop you from exploring new directions.



Looking ahead, what excites you most about the future of informatics?

The future of informatics for me is optimistic and bright! Tools with AI are being adopted across healthcare and research facilities at a rapid pace, and while there is some hype in the current AI discussions, it is evident that these tools will touch people's lives beyond imagining. I believe that humans and AI together can make a big impact in clinical care and drug safety, more than AI alone. We have the opportunity to advance and shape interdisciplinary research in healthcare AI, while keeping in mind the goal of helping patients and healthcare providers above all.

AMIA ANNUAL SYMPOSIUM-FEATURED EVENTS

**Don't miss these exciting events aimed at
empowering students and trainees**

DAY 1: SATURDAY (11/15)

Student Paper Competition

2:30-5:30 PM @ M105

Women in Informatics

Networking Event

5:00-6:30 @ A703

DAY 3: MONDAY (11/17)

Movement Session

6:00-6:45 AM @ Marquis Ballroom B

Exhibition Hall & Headshot Studio

9:00 AM-1:00 PM, 3:00-6:30 PM @
International Ballroom

Poster Session

5:00-6:30 PM @ International
Ballroom

Empowerment, Engagement and Representation Community

Networking Reception

6:30-8:00 PM @ A703

Mentoring Circles

Pre-registration required

8:00-9:30 PM @ Marquis Ballroom A

DAY 5: WEDNESDAY (11/19)

Closing Ceremony & Informatics Year-in-Review

11:15 AM-12:15 PM @ Atrium
Ballroom

DAY 2: SUNDAY (11/16)

AMIA Fun Run/Walk

6:15-7:30 AM @ Hotel Lobby

AMIA and Annual Symposium Orientation

12:30-1:15 PM @ A707

Student Working Group Meeting

6:00-7:00 PM @ L508

DAY 4: TUESDAY (11/18)

Exhibition Hall & Headshot Studio

9:00 AM-1:00 PM, 3:00-6:30 PM @
International Ballroom

Poster Session

5:00-6:30 PM @ International
Ballroom

Student and ACMI Mixer

Pre-registration required

5:30-7:00 PM @ Marquis Ballroom A

Women in AMIA Mentoring Event

Pre-registration required

7:00-8:30 PM @ Sky Line North

*To see more programs
and schedule:*

CLICK HERE →