

Newsletter

FEBRUARY 2023



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Publications

Save the date:

AMIA Informatics Summit

March 13-16
Seattle, WA

AMIA Clinical Informatics Conference

May 23-25
Chicago, IL

AMIA 2023 Annual Symposium Call for Participation

Interested in presenting at the Annual Symposium November 11-15 in New Orleans? The submission deadline has been extended to **March 21**, so there is still time to submit your proposal! Visit [this link](#) for more information about how to submit. The 2023 Annual Symposium will take place in New Orleans on November 11-15.

AMIA Clinical Informatics Conference

Registration is now open! Early registration pricing is available until **March 30**. More information can be found [here](#).

AMIA Board Agendas and Minutes

Stay up-to-date with recent agendas and discussions from the AMIA board of directors using this [link](#).

If you have any opportunities for students that you would like to share, please let us know via the Google Form (Link Below)!

<https://forms.gle/NUebtKGFxCGwkSPz8>

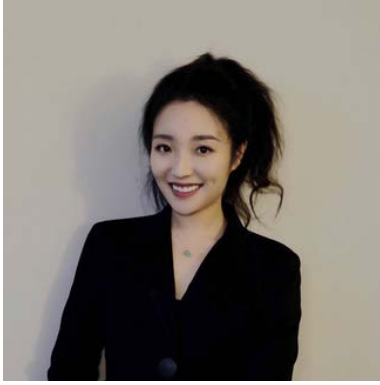


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STUDENT SPOTLIGHT



Yawen Guo

PHD STUDENT

DONALD BREN SCHOOL OF INFORMATION
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UNIVERSITY OF CALIFORNIA, IRVINE

1. PLEASE BRIEFLY DESCRIBE YOUR PAPER FOR THE STUDENT PAPER COMPETITION.

The paper, titled “Public Opinions toward COVID-19 Vaccine Mandates: A Machine Learning-based Analysis of U.S. Tweets,” studied a large volume of tweets to examine the beliefs held among Twitter users toward vaccine mandates, as well as the evidence that they used to support their positions.

2. CAN YOU WALK US THROUGH THE RESEARCH PROCESS YOU UNDERWENT AND THE CHALLENGES YOU FACED DURING YOUR STUDY?

Since the release of the COVID-19 vaccine, the vaccine mandate has been a subject of frequent discussion among the public, with a wide range of opinions being expressed. As an informatics student, I became interested in exploring the reasons and arguments behind these opinions, as well as the overall public response to vaccine mandates. One of the main challenges I faced in this work was generating a comprehensive list of keywords for the collection of tweets, and categorizing text data that expressed ambiguous personal opinions. Fortunately, a two-stage machine learning model that was designed for this purpose effectively addressed these challenges.

3. HOW DOES YOUR RESEARCH CONTRIBUTE TO THE FIELD AND WHAT IMPACT DO YOU HOPE IT WILL HAVE?

Empirically, the analysis of public sentiment provides significant insights into the comprehension of public opinions, as well as the reasons for both for- and against- positions, regarding COVID-19 vaccination and related mandating policies. Furthermore, it has the potential to identify inadequacies in public health communication related to these topics. Methodologically, this approach involves the utilization of a comprehensive set of tools, which enable the reduction of extraneous data noise that commonly exists in social media. Additionally, these tools facilitate the production of accurate classification results, which may be augmented by qualitative methods to complement machine learning-based findings.

4. DO YOU HAVE ANY RECOMMENDATIONS ON HOW STUDENTS CAN GET THE MOST OUT OF THEIR AMIA CONFERENCE EXPERIENCE?

Attending the AMIA conference is the perfect way for us students to learn about the latest research and developments in the field of health informatics, network with other professionals, and gain exposure to potential career opportunities. To get the most out of the AMIA experience, planning ahead, attending sessions outside your area of expertise, participating in student events, and engaging with presenters are recommended.

PUBLICATION SPOTLIGHT

JAMIA Volume 30, Issue 2:

Articles with Student/Trainee Listed as First Author

Bashir Hamidi - Medical University of South Carolina, SC, USA

Bashir Hamidi, Patrick A Flume, Kit N Simpson, Alexander V Alekseyenko. Not all phenotypes are created equal: covariates of success in e-phenotype specification. <https://doi.org/10.1093/jamia/ocac157>

Lu Yang - Stanford University, CA, USA

Lu Yang, Sheng Wang, Russ B Altman. POPDx: An automated framework for patient phenotyping across 392 246 individuals in the UK Biobank study. <https://doi.org/10.1093/jamia/ocac226>

Ronald Wihal Oei - National University of Singapore, Singapore

Ronald Wihal Oei, Wynne Hsu, Mong Li Lee, Ngiap Chuan Tan, Using similar patients to predict complication in patients with diabetes, hypertension, and lipid disorder: A domain knowledge-infused convolutional neural network approach. <https://doi.org/10.1093/jamia/ocac212>

Tianmai M Zhang - Columbia University, NY, USA; University of Washington, WA, USA

Tianmai M Zhang, Mari Millery, Alejandra N Aguirre, Rita Kukafka. A randomized controlled trial of generic and localized MedlinePlus-based information resources for hard-to-reach urban Hispanic community. <https://doi.org/10.1093/jamia/ocac213>

Ari J. Smith - University of Wisconsin-Madison, WI, USA

Ari J Smith, Brian W Patterson, Michael S Pulia, John Mayer, Rebecca J Schwei, Radha Nagarajan, Frank Liao, Manish N Shah, Justin J Boutilier. Multisite evaluation of prediction models for emergency department crowding before and during the COVID-19 pandemic. <https://doi.org/10.1093/jamia/ocac214>

Maxwell A Weinzierl, The University of Texas at Dallas, TX, USA

Maxwell A Weinzierl, Sanda M Harabagiu. Epidemic Question Answering: question generation and entailment for Answer Nugget discovery. <https://doi.org/10.1093/jamia/ocac222>

Yikuan Li, Northwestern University, IL, USA

Yikuan Li, Ramsey M Wehbe, Faraz S Ahmad, Hanyin Wang, Yuan Luo. A comparative study of pretrained language models for long clinical text. <https://doi.org/10.1093/jamia/ocac225>

Joshua Hatherley - Monash University, VIC, Australia

Joshua Hatherley, Robert Sparrow. Diachronic and synchronic variation in the performance of adaptive machine learning systems: The ethical challenges. <https://doi.org/10.1093/jamia/ocac218>

Siyue Yang - University of Toronto, ON, Canada

Siyue Yang, Paul Varghese, Ellen Stephenson, Karen Tu, Jessica Gronsbell. Machine learning approaches for electronic health records phenotyping: a methodical review. <https://doi.org/10.1093/jamia/ocac216>

Please kindly note that the Student/Trainee status was identified based on available information via public domain.