VCLIC News and Happenings, Volume 41

Happy Thanksgiving, readers! This month, we are especially thankful for the continued support and engagement from each one of you. That being said, November has been quite an exciting month for us, and we have many updates to share with you.

To start us off, we are thrilled to bring you highlights from the recent 2023 AMIA (American Medical Informatics Association) Annual Symposium, held in New Orleans, LA, from November 11th-15th. VCLIC had several members present their work, and the symposium served as an exceptional forum for exchanging ideas and fostering collaboration within the medical informatics community. In addition, we are proud to recognize several of our members who were honored with prestigious AMIA-specific awards and distinctions! Please see below for AMIA highlights and some fun pictures!

For our feature this month, we are highlighting **Dario Guise, Dr. Ing, MS**, Associate Professor of Biomedical Informatics and Director, Health IT. We are so grateful for Dario's wonderful contributions to VCLIC and Vanderbilt and are excited to spotlight him this month!

Finally, and per usual, we have several Center members who have **received awards**, been mentioned in the **news**, presented **lectures** and at conferences, **published papers**, have had **abstracts** accepted to conferences, and had **honors or fellowships** bestowed on them.

If you have any questions or would like to engage with our team, please email Elise (elise.russo@vumc.org).

AMIA 2023 Annual Symposium Recap

It was a delight to witness such a strong turnout from current VCLIC members, prospective members, alumni, and friends at the AMIA symposium last week! We're still recharging from the busy week, but we're excited to showcase the outstanding awards our members achieved throughout the event!

- Mentioned in the AMIA 2023 Year in Review:
  - **Allison McCoy**, **PhD**, **Siru Liu, PhD** & **Adam Wright, PhD** received an honorable mention for their paper "Using AI-Generated Suggestions from ChatGPT to Optimize Clinical Decision Support" and VCLIC's **Clickbusters** was also mentioned!

- o **Jessica Ancker, MPH, PhD, FACMI** co-authored a paper "Beyond Mathematics, Statistics, and Programming: Data Science, Machine learning, and AI Competencies and Curricula for Clinicians, Informaticians, Science journalists, and Researchers" which was mentioned in the Year in Review!
  - o "The Impact of Clinical Decision Support on Health Disparities and the Digital Divide", a paper by **Brian Douthit**, **PhD**, **Allison McCoy, PhD** and **Scott Nelson, PharmD, MS** was also mentioned
  - o **Yaa Kumah-Crystal, MD, MPH, MS** had the paper "ChatGPT and the Clinical Informatics Board Examination: The End of Unproctored Maintenance of Certification?" mentioned as well!
- **Trent Rosenbloom, MD, MPH, FACMI** received an AMIA 2023 Leadership Award for his work with 25x5!
- **Yaa Kumah-Crystal, MD, MPH, MS** and **Tom Reese, PharmD, PhD** were named as part of the 2024 class of 84 Fellows of AMIA (FAMIA) in the FAMIA Applied Informatics Recognition Program!

Fall 2023 VCLIPS

We would like to continue to remind everyone about our VCLIPS! Last year we introduced Vanderbilt Clinical Informatics Practical Shorts(VCLIPS). These are bite-size instructional videos on practical clinical informatics topics from expert VCLIC faculty (and staff). This year we are excited to release several more VCLIPS, covering new topics and featuring new VCLIC experts. We also plan to continue to offer synchronous workshops on the topics in highest demand.

Earlier this fall, we released 4 more VCLIPS series, including:

- Exempt IRB Research (Elise Russo, MPH)
    - Learn about human research protections, exempt research, and how to submit an exempt protocol to the IRB using VUMC/VU's DiscoverE system
- Address Geocoding (Bryan Steitz, PhD)
    - Learn how to convert text-based addresses to geographic coordinates using the free geocoding tool POINT
- Using Epic to Support Clinical Research (Eddie Qian, MD)
    - Learn how to integrate your randomized trial into Epic, including automatic implementation of trial criteria and patient randomization
- Signal Data (Sean Huang, MD)
    - Learn about the wealth of efficiency data available for research within Epic's analytics tool called Signal

Coming soon:

- Agile Methods for Leading a Clinical or Research Informatics Team
- Implementing and Using PROMs Data
- Medication Data Tools
- Qualitative Methods
- SlicerDicer

Last year's VCLIPS are still available, including: Introduction to Epic and Build Capabilities, Data Resources, Human Centered Design Principles and Processes, and Evaluation and Dissemination of HealthIT Interventions.

You can also access, contribute to, comment on or ask questions about all of the VCLIPS content (and more) on our Confluence site.

We are in the process of planning next semester's VCLIPS synchronous, in-person sessions and will have more information for you on those very soon. Please reach out to Adam Wright or Elise Russo with any questions, suggestions or feedback. Let us know if you have ideas for additional VCLIPS that we could produce – we're hoping to grow our library over time.

VCLIC Events

Thank you to everyone who attended the "Designing for Health" Ground Rounds with **Craig Joseph, MD, and Jerome Pagani, PhD** on November 1st, and to those who attended the Signal and Audit Log data Office Hours session with **Bryan Steitz, PhD, and Sean Huang, MD** on November 7th, 2023.

Our next DBMI and VCLIC Grand Rounds presentation will be on **December 13th, from 12:00-1:00 pm** at 2525 West End, 8110 (and streamed on MS Teams) and will feature several VUMC Clinical Informatics researchers (physicians, and leaders). Our presenters will offer an update on clinical informatics activities at VUMC. **Dr. Adam Wright** will provide an overview of the state of the Vanderbilt Clinical Informatics Center (VCLIC) and the programs that VCLIC coordinates. **Dr. Eddie Qian** will review the ACORN trial, a pragmatic trial in the EHR published recently in JAMA. **Dr. Siru Liu** will review efforts to improve CDS using generative and explainable AI. **Dr. Dara Mize** will review HealthIT's activities and roadmap.

Soon we will also have more updates for you on our offerings in the new year!

Featured Member: Dario Giuse, Dr. Ing., MS, FACMI

Dario A. Giuse, Dr. Ing., MS, FACMI is Associate Professor of Biomedical Informatics in the School of Medicine, Vanderbilt University. He has long-standing research interests in the application of computer systems to facilitate real-world work process. Dr. Giuse received an MS in Pure and Applied Mathematical Logic from Carnegie Mellon University and a Dr.Ing. (Dottore in Ingegneria) degree from the Politecnico di Milano, Milan, Italy.

During his 14 years on the faculty of the School of Computer Science, Carnegie Mellon University, he was involved in long-term research projects on human-computer interaction, constraint-based object oriented programming, computer aided design, computer system architecture design tools, and interactive computer graphics. His graduate research was in the area of synchronous controllers for multi-arm industrial robots.

As an adjunct faculty member of the University of Pittsburgh Medical Center, he was the main architect of the QMR-KAT knowledge acquisition tool, the first knowledge editor to be used for large-scale, multi-center medical knowledge acquisition. With his colleagues at the University of Pittsburgh, he conducted a systematic evaluation of the costs of long-term maintenance of medical knowledge bases.

He has served as a member of the editorial board of Artificial Intelligence in Medicine, the Regional Editor of Computer Methods and Programs in Biomedicine, and as the co-chair of IMIA Working Group 10 on Health Information Systems.

In his own words:

"My background, before I moved into biomedical informatics, is in computer science and robotics. After joining the faculty of the VUMC DBMI in 1994, I have been involved in Clinical Informatics, creating the first three generations of the VUMC EHR.

The third generation, StarPanel, was the only homegrown EHR to be Meaningful Use certified, and was the official VUMC EHR from 2001 through 2017. When the fourth generation (eStar, based on the Epic system) went live in November 2017, StarPanel became the read-only repository of all historical and current clinical data; the StarPanel Viewer is embedded as a tab in the eStar user interface. The original (now read-only) version is still available for clinical and research users who need access to historical data.

Starting in 2019, I have developed the Word Cloud NLP, a real-time, at-scale concept extraction system that extracts UMLS-coded concepts from free-text clinical documentation. The database, which was created from over 1.7 billion documents, provides phenome information derived from free text for over 4.5 million patients; 850,000 clinical documents are processed on a typical weekday. In addition to being viewable through a UI embedded in eStar, the data is made available in real time to eStar, where it is used to drive decision support. A complete snapshot is also sent daily to the VUMC Data Lake, hosted in the Azure cloud, where it can be joined with all other VUMC data for research purposes.

Now that the Word Cloud concepts data is available for decision support and research, I would like to increase knowledge of its capabilities and possible uses. Several research projects, for instance, have been using the real-time event extraction to facilitate enrollment of patients in different research studies; this area could be expanded very easily. I also have an interest in facilitating rapid-prototyping of the kind that was supported routinely in the StarPanel environment. For this purpose, I have recently embedded a new tab in the eStar UI (named StarGaze) which can be used to place prototypes of ideas in front of pilot users without any build activity on the Epic side. Because StarGaze uses a team-based access control mechanism, it makes it very easy to try out new apps safely for just a handful of users, without the need for any Epic-based security profiles. This reduces the barrier of entry from weeks/months to just hours, hopefully making it much quicker for VCLIC members to try out new ideas."

Upcoming Conference Submission Deadlines

- Anesthesiology Annual Meeting (ASA)
  - General Session Submission Deadline: November 28, 2023
  - Problem Based Learning Discussion Sessions: February 6, 2024
- American Medical Informatics Association (AMIA) CIC
  - Proposal Submission Deadline: November 30, 2023
- American Nursing Informatics Association (ANIA)
  - Poster Abstracts Submission deadline : December 15, 2023
- Society for General Internal Medicine (SGIM)
  - Abstract Submission Deadline: December 20, 2023
- AcademyHealth Annual Research Meeting (ARM)
  - All Submissions Deadline: January 11, 2024
- Society for Industrial and Applied Mathematics (SIAM) Annual Meeting
  - Minisymposium Proposal Submissions Deadline: January 10, 2024
  - Contributed Lecture, Poster, Miniposterium, and Minisymposium Presentation Abstracts Submission Deadline: January 31, 2024
- Symposium on Artificial Intelligence for Learning Health Systems (SAIL)
  - Abstract Submission Deadline: Late January 2024
- International Conference on Machine Learning (ICML)
  - Full Paper Submission Deadline: February 1, 2024
- American Society of Clinical Oncology (ASCO) Annual Meeting
  - Abstract Submission Deadline: February 6, 2024

Details on upcoming conferences and conference deadlines can be found on our Confluence page, here.

For those of you attending conferences and presenting posters, we have a template on our [Confluence page](#) that we would encourage you to use.

Presentations, Interviews, Honors, and Awards

Honors/Awards

- [The Journal of General Internal Medicine has released a special issue on EHRs](#), featuring great work by many of our VCLIC members, including **Shilo Anders, PhD**, and **Matthew Weinger, MD, MS**!
- **Laurie Novack, PhD, MHSA** was featured in the VUMC reporter for being part of the VUMC team, in collaboration with Duke University School of Medicine for being awarded a $1.25 million grant from the Gordon and Betty Moore Foundation for the project "[Measuring Artificial Intelligence (AI) Maturity in Healthcare Organizations](#)."
- **Kevin Johnson, MD, MS** and Harris Bland, MPH, MBA, spoke with VUMC's Senior Vice President and Senior Associate Dean of Health Equity and Inclusive Excellence Consuelo Wilkins on Kevin's ["Informatics in the Round" podcast](#).
- **Eva Dye, DNP, APRN, NNP-BC, Wael Alrifai, MD, MS, Dan France, PhD, MPH,** part of the NICU workload research group, had a journal of Perinatology article "Workload In Neonatology (WORKLINE): Validation and feasibility of a system for measuring clinician workload integrated into the electronic health record" recently highlighted in [Vanderbilt's online magazine (Discoveries in Medicine).](#)
- **Sunil Kriplani, MD, MSc, SFHM, FACP** and **Lyndsay Nelson, PhD** were [featured in the VUMC Reporter](#) for being awarded a three-year, $1.6 million federal grant to incorporate social drivers of health into adult primary care with the aim of improving outcomes for patients with multiple chronic conditions.
- **Kevin Johnson, MD, MS** recently discussed the use of AI in reducing clinician burden with *JAMA Network*. [Read more about the research here.](#)
- **Travis Osterman, DO, MS, FAMIA, FASCO** was [featured in the VUMC Reporter](#) discussing a study done by GE Healthcare, VUMC and the University Medicine Essen in Germany.
- **Daniel Byrne,** MS and **Jon Wanderer, MD** had the research study "[Model-Guided Decision-Making for Thromboprophylaxis and Hospital-Acquired Thromboembolic Events Among Hospitalized Children and Adolescents: The CLOT Randomized Clinical Trial](#) " [featured in the VUMC Reporter](#).
- **Kim Unertl, PhD** was featured in Episode 3, Season 4 of VUMC's DNA Podcast. [Listen here](#)!
- **Julian Genkins, MD** joined our DBMI secondary faculty as Assistant Professor on Sept. 1. Welcome!
- As noted in last month's publications list**, Eddie Qian, MD, MS, Adam Wright**, **PhD,** and team published their ACORN Randomized Clinical Trial "[Cefepime vs Piperacillin-Tazobactam in Adults Hospitalized With Acute Infection](#)" in *JAMA*. This paper was [covered in the *VUMC Reporter*](#) and in *NEJM*'s Journal Watch [here](#).

Not exactly an award, but several members of our Center are featured in the AMIA Website header currently! (Alvin Jeffery, Elise Russo, Adam Wright, Allison McCoy)

Conferences and Other Presentations

- Gu C, Bennett A, **McCoy A**, Bachman J, Pabla B, Schwartz D, Beaulieu D Scoville E, Dalal R, Gaines L, Slaughter J, **Horst S**. "High Rates of patient reported outcomes measurements in patients with inflammatory bowel disease with electronic medical record implementation." Poster Presentation, Advances in Inflammatory Bowel Diseases. 2023.
- Bennett A, Gu C, **McCoy A**, Bachman J, Pabla B, Schwartz D, Beaulieu D Scoville E, Dalal R, Gaines L, Slaughter J, **Horst S**. "Depressive Symptoms and quality of life scores improve over time in patients with inflammatory bowel disease at a multidisciplinary care center." Poster Presentation, Advances in Inflammatory Bowel Diseases. 2023.
- **Ashley Spann, MD, MSACI** made a BIG impression at the American Association for the Study of Liver Diseases (AASLD) 2023 "The Liver Meeting" (TLM)! She discussed AI technology in hepatology, applied health informatics, implementation and more!

Publications

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Reminder to Send Updates for Recognition

If you (or another VCLIC Member) publishes a paper; has an abstract accepted at a conference; are interviewed for or written up in a news article; receive any awards, accolades, or honors; or completed/are currently undertaking any projects you would like to highlight, please email me with or forward this information:

- Names of VCLIC members/VUMC staff who participated in or worked on the project, paper, or abstract (or who received the award/honor)
- The title of the Project, Paper, Abstract, Article, or Award
- The journal, conference, or news publication (this can be podcasts, radio, or more "traditional," news mediums)

Nothing is too big or too small to celebrate, and this information will be featured on the [News section of our website](url) as well. As time goes on, I am hoping to also improve our Twitter presence, so feel free to add, tag, or tweet us at [@VUMC_VCLIC](url) too!

Thank you, and see you soon!