

Die MIRACUM-DIFUTURE USA Infotour 2023

Martin Boeker für die Organisatoren und Teilnehmer der USA Info-Tour 2023

2023-11-28 MIRACUM-DIFUTURE Kolloquium

Inhalte

- Zielorte und Ablauf der Reise
- Inhalte und Partner an den Standorten
- Wichtigste Inhalte
- Ergebnisse der Besuche (aus persönlicher) Sicht
- Was macht US anders

Planung der Reise

- Frühzeitige Planung von Orten und Reiseroute
- Abstimmung von Terminen und Programmen mit Partnern an den Zielorten
- Individuelle Buchungen durch TN der Reise
- Booklet für die Partner mit Teilnehmern und Programmen

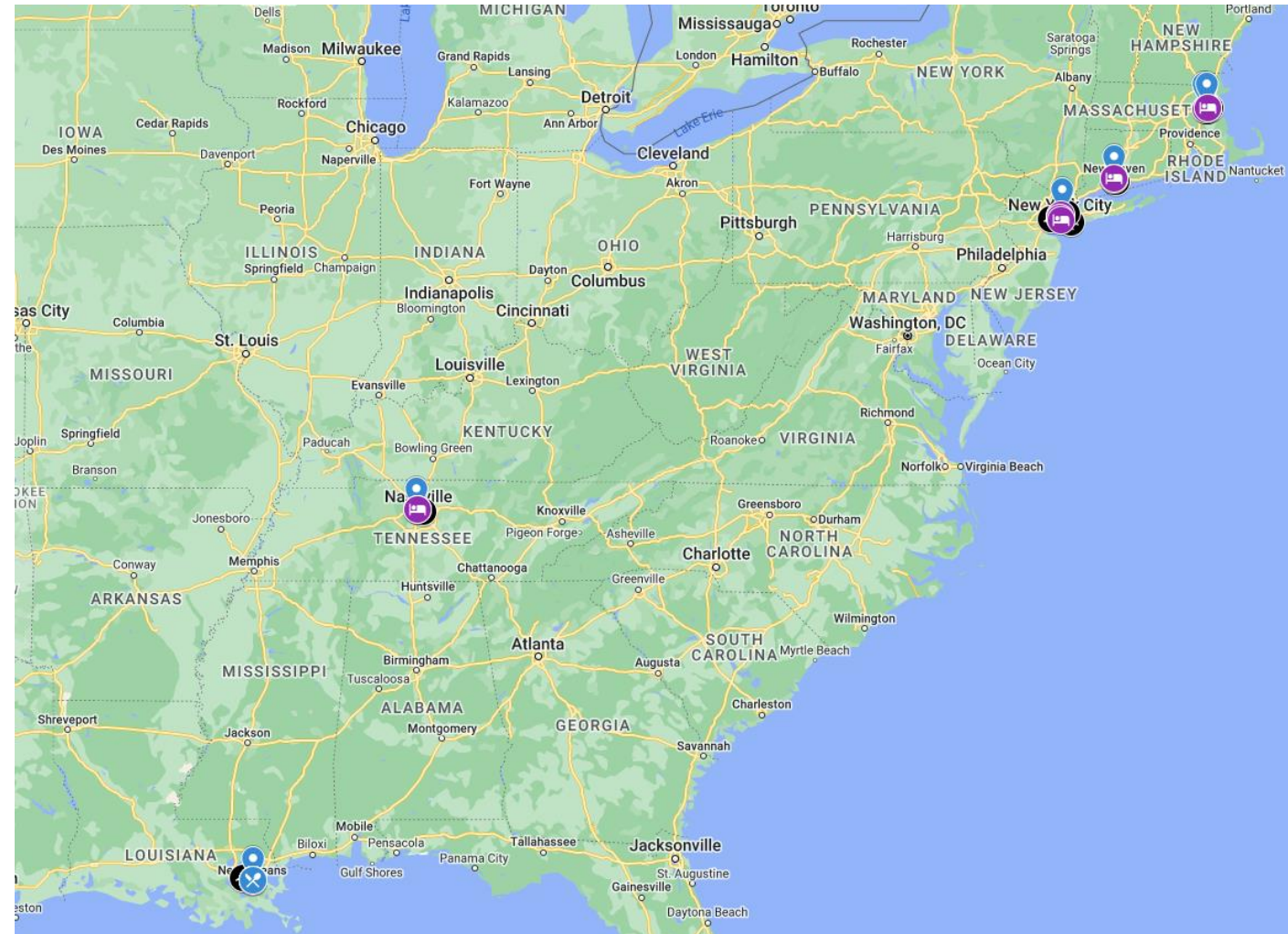
US Medical Informatics Lab Visits

NOVEMBER 5TH-15TH 2023

Link: [Googlemap mit allen Standorten und Hotels](#)

Ablauf und Orte der Reise

2023-11-05	New York	Steering Board
2023-11-06	New York	Columbia University
2023-11-07	Nashville	Vanderbilt University
2023-11-08	Boston	Harvard Medical School, TriNetX
2023-11-09	Boston	Brigham General Hospital
2023-11-10	New Haven	Yale University
2023-11-12	New Orleans	AMIA 2023



Beiträge von MIRACUM-DIFUTURE

Ulli Prokosch, Martin Boeker, Martin Sedlmayr
Status of MIRACUM and DIFUTURE consortia and DIC
Thomas Ganslandt
Overview of MII interoperability and cross_consortial use case projects
Oliver Kohlbacher und Martin Boeker
• MII method platforms PrivateAim (privacy preserving federated machine learning) and GeMTex (German Medical Text Corpus) • Clinical use case PM4Onco (personalized medicine for oncology)

- Häufig zu viele Beiträge bei kurzen Besuchen geplant

New York - Columbia University

08:00 -08:30 Uhr	Breakfast
08:30 -09:00 Uhr	Noemie Elhadad (filled-in for by Soumitra Sengupta) Columbia DBMI Overview
09:00 - 09:30 Uhr	George Hripcsak OHDSI Status Update
09:30 - 10:00 Uhr	Chunhua Weng Clinical Reseach Informatics
10:00 -10:30 Uhr	Sarah Rossetti Clinical Decision support Through machine learning in the ICU
10:40 -11:10 Uhr	Pierre Elias Clinical decision support through machine learning in cardiology



New York - Columbia University

- CDM: OHDSI
- Human Ressources
- Integration with Clinical IT
- Migration to EPIC
- Large Language Models
- Machine Learning



New York – Eindrücke



Nashville - Vanderbilt University

9:00 - 10:00	Josh Peterson (Director Center for Precision Medicine)
10:00 - 10:30	Peter Embi (department chair)
10:30 - 11:00	Zhijun Yin (faculty in the Health Data Science Center)
11:00 - 11:30	You Chen (faculty in the Health Data Science Center) (postdoc)
11:30 - 12:00	Luca Bonomi (faculty in the Health Data Science Center)
13:00 - 14:00	Jessica Ancker and Kim Unertl (education)
14:00 - 14:30	Adam Wright (VCLIC -Vanderbilt Clinical Informatics Center)
14:30 - 15:00	Lina Sulieman (representing the All of Us Research Program) and Robert Carroll



Nashville – Vanderbilt University

- eMERGE
- RedCAP CDIS interface (via FHIR to EHR)
- EPIC customization
- Education
- OMOP –
All of us research program

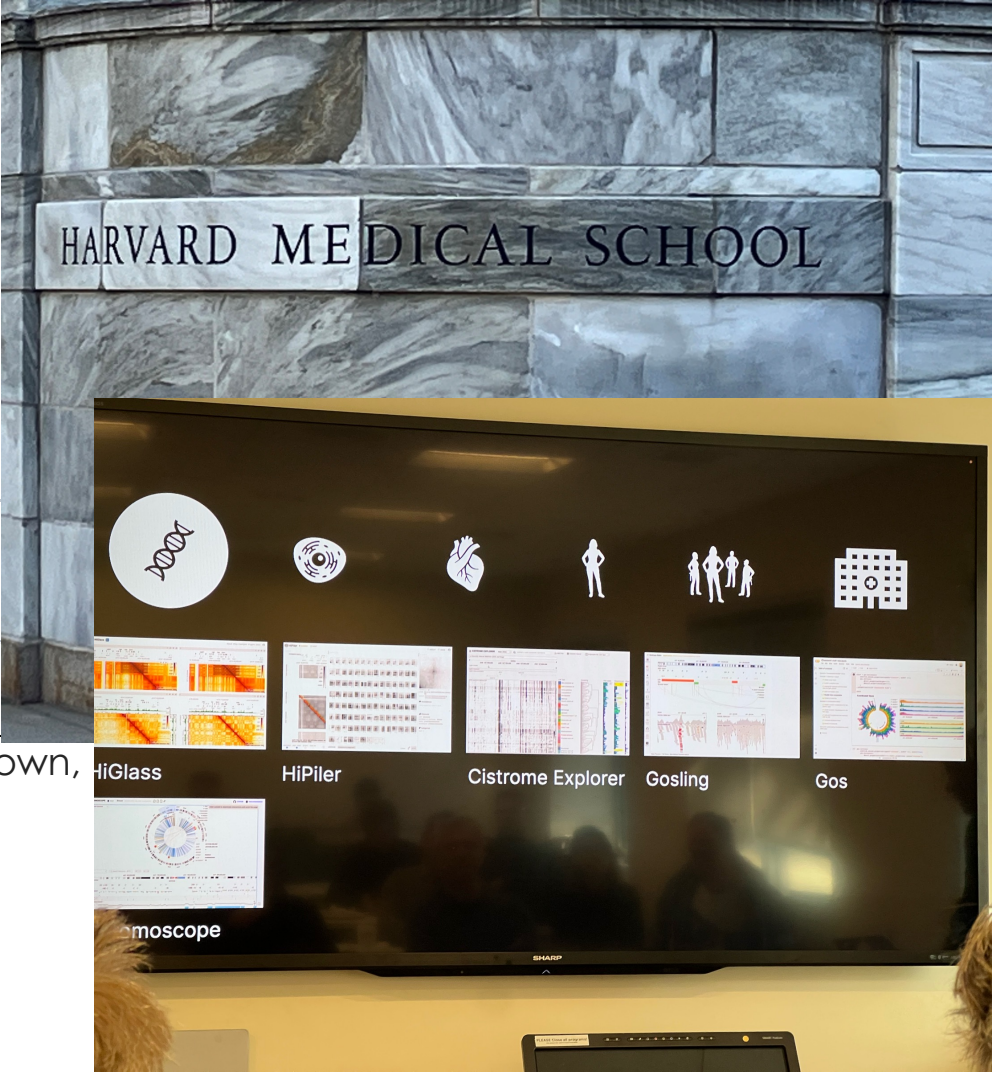


Nashville – Impressionen



Boston - Harvard Medical School and TriNetX

09:00 -09:10 Uhr	Welcome Nils Gehlenborg
09:10 – 10:30 Uhr	Vorträge aus Nils Gehlenborg's Team • Visualisierung • Education
15:15 -17:00 Uhr	TriNetX presentations (Mark Steiner, Lindsay Stahl, Rebecca Brown, Mehmet Akyüz) • general introduction to TriNetX • brief overview of TriNetX in Germany • informatics details of the platform • TriNetX product Roadmap



Boston - Brigham General Hospital

9:40 - 10:00	1	Hossein Estiri, Ph.D. Assistant Professor, Harvard Medical School PI, Clinical Augmented Intelligence (CLAI) Group Massachusetts General Hospital	AI and Precision Phenotype Modeling
10:00 - 10:30	2	Vivian Gainer Associate Director, RISC, MGB Program Manager, RECOVER Data Resource Core	RECOVER
	3	Nich Wattanasin Assistant Director, RISC, MGB Technical Architect, RECOVER Data Resource Core	i2b2 in RECOVER
10:30 - 10:40		Break	
10:40 - 11:30	4	Kavishwar B. Waghlikar, MBBS, Ph.D, FAMIA Assistant Professor of Medicine, Harvard Medical School Assistant in Computer Science Massachusetts General Hospital	Developing a Phenotyping Pipeline for the Global South
	5	Jeffrey G. Klann, Ph.D. Assistant Professor of Medicine, Harvard Medical School Assistant in Computer Science Massachusetts General Hospital	Enriching Electronic-Health-Record Cohorts by Identifying Patients with Complete Data
	6	Christopher D. Herrick Vice President, Research Systems & Technology Research Information Science & Computing, MGB	Data & Analytics for Research



Boston – Brigham General Hospital

- Research Patient Data Repository (RPDR)
 - I2b2
 - Integration with LLM (querying)
- Research Infrastructure
 - Importance for funding
 - 8M Patients (40 yrs)
 - Research data enclave



Boston – Eindrücke



New Haven - Yale University

08:00 -08:30 Uhr	Dean Nancy Brown
08:30 -09:00 Uhr	Tony Koleske, Brian Smith and Lucila Ohno-Machado Department Overview
09:00 - 10:00 Uhr	Presentations from Senior and Junior Researchers Various Presentations
10:15 -11:15 Uhr	Still to be decided: presentations from Lucila´s team



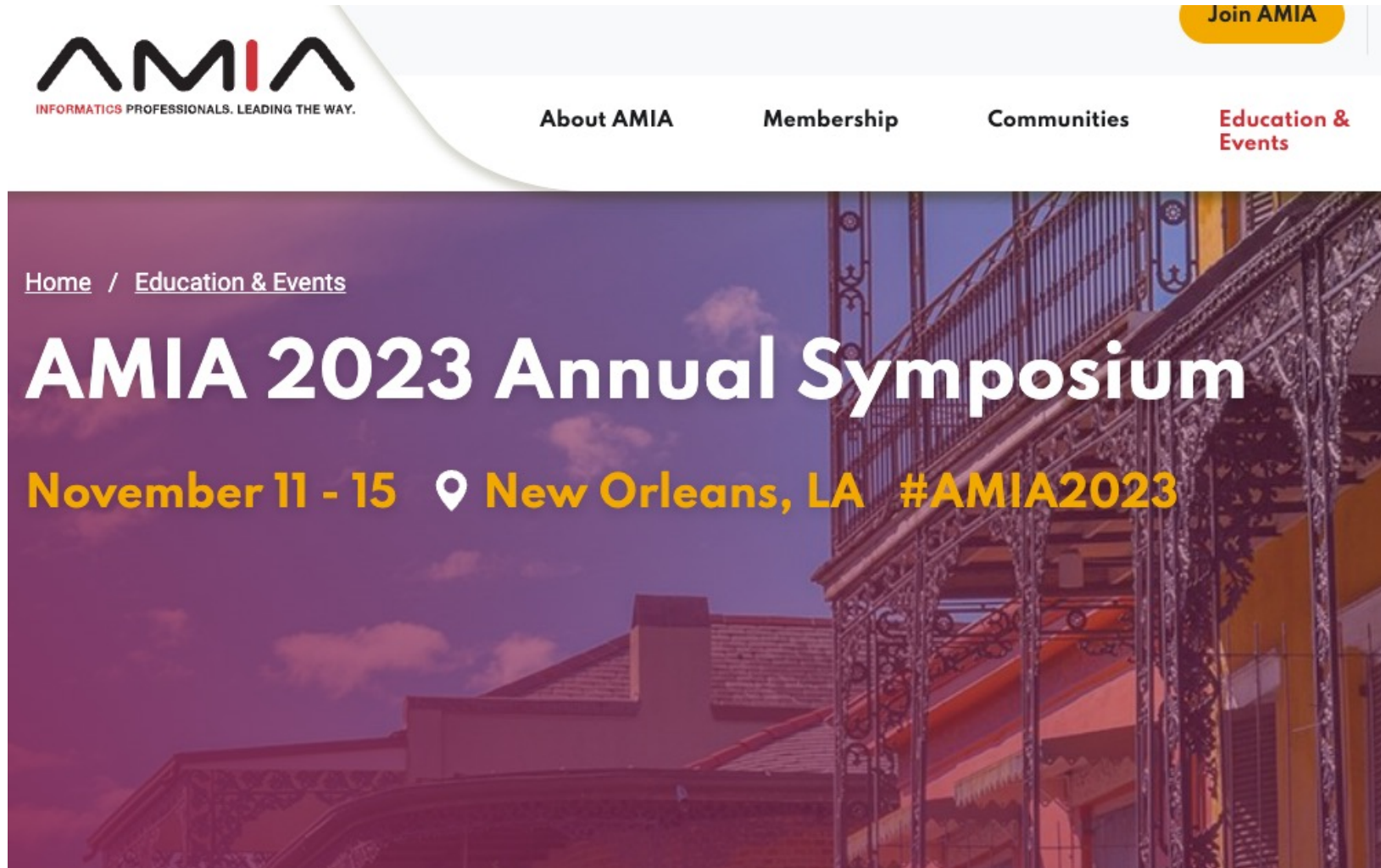
New Haven - Yale University

- Education
 - Exchange Program
- Machine Learning/AI
- Combination with knowledge graphs
- LLM - accuracy

New Haven – Eindrücke



New Orleans - AMIA 2023



- Programm über die AMIA-App
- Vorträge können zur Verfügung gestellt werden
- LLM/AI
- Diversity
- Global South

New Orleans – Eindrücke



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Lessons learned

- Think big, start small
- Keep it simple, stupid
- Konsequent vorhandene Technologie nutzen
- Daten über Jahre sammeln – nie damit aufhören
- Bei technologischen, methodischen Möglichkeiten „schnell sein“
- LLM – Forschung und Nutzung in den USA gegenüber Europa bereits fortgeschritten (eher positive Grundhaltung)
- OMOP nutzen, internationale Kooperationen suchen
- Wie steht es um Diversität in der MII?

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