Mother's Day-Themed Breakout Conversations

OHDSI Community Call
May 10, 2022 • 11 am ET

Upcoming OHDSI Community Calls

Date	Topic
May 17	OHDSI Debates
May 24	Open Studies
May 31	Workgroup OKRs
June 7	Welcome to OHDSI
June 14	OHDSI Scholarship (Publications)
June 21	10-Minute Tutorials
June 28	European Symposium Recap

Upcoming OHDSI Community Calls

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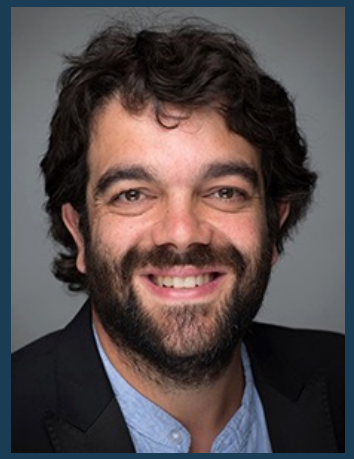
May 17: OHDSI Debates

Debate #1

Phenotype Development:
One-size-fits-all vs. Tailored-per-databases

Azza Shoaibi
Associate Director
Janssen Research & Development

Asieh Golozar
VP, Global Head of Data Science
Odysseus Data Services, Inc.



Debate #2

Study Diagnostics:
Nice-to-have vs. Essential requirements

Dani Prieto-Alhambra
Professor
Univ. of Oxford and Erasmus Univ.

Martijn Schuemie
Research Fellow, Epidemiology Analytics
Janssen Research & Development

Three Stages of The Journey

Where Have We Been?

Where Are We Now?

Where Are We Going?

OHDSI Shoutouts!

Congratulations to the team of **Fatemeh Amrollahi, Supreeth P Shashikumar, Angela Meier, Lucila Ohno-Machado, Shamim Nemati, and Gabriel Wardi** on the publication of **Inclusion of social determinants of health improves sepsis readmission prediction models** in JAMIA.

JAMIA
A SCHOLARLY JOURNAL OF INFORMATICS IN HEALTH AND BIOMEDICINE

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Inclusion of social determinants of health improves sepsis readmission prediction models Get access

Fatemeh Amrollahi, Supreeth P Shashikumar, Angela Meier, Lucila Ohno-Machado, Shamim Nemati, Gabriel Wardi

Journal of the American Medical Informatics Association, ocac060, https://doi.org/10.1093/jamia/ocac060

Published: 02 May 2022 **Article history**

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Abstract

Objective

Sepsis has a high rate of 30-day unplanned readmissions. Predictive modeling has been suggested as a tool to identify high-risk patients. However, existing sepsis readmission models have low predictive value and most predictive factors in such models are not actionable.

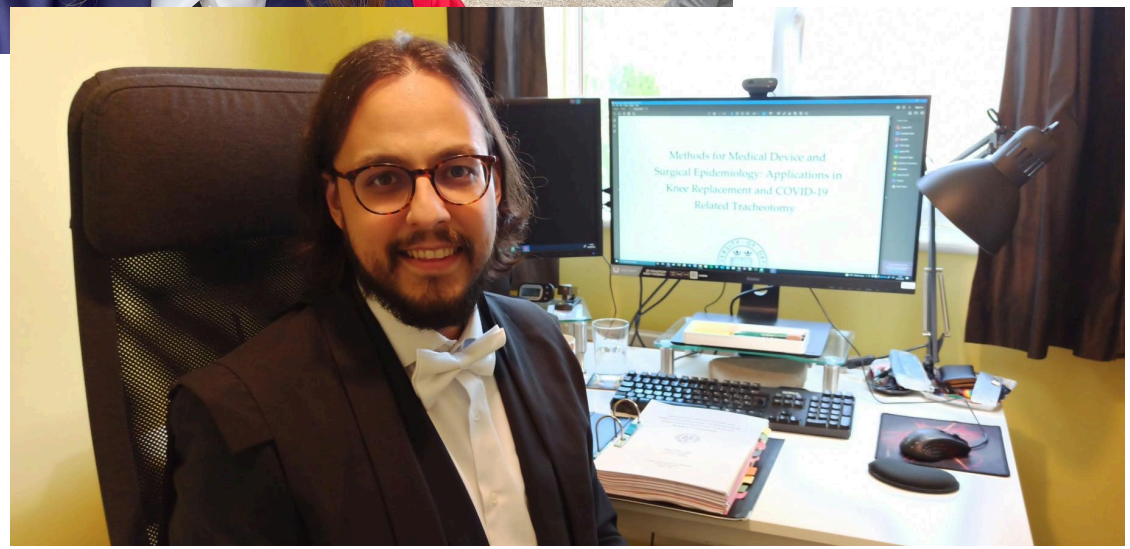
Materials and Methods

Data from patients enrolled in the AllofUs Research Program cohort from 35 hospitals were used to develop a multicenter validated sepsis-related unplanned readmission model that incorporates clinical and social determinants of health (SDH) to predict 30-day unplanned readmissions. Sepsis cases were identified using concepts represented in the Observational Medical Outcomes Partnership. The dataset included over 60 clinical/laboratory features and over 100 SDH features.

OHDSI Shoutouts!

Two Oxford shoutouts from **Kristin Kostka**.

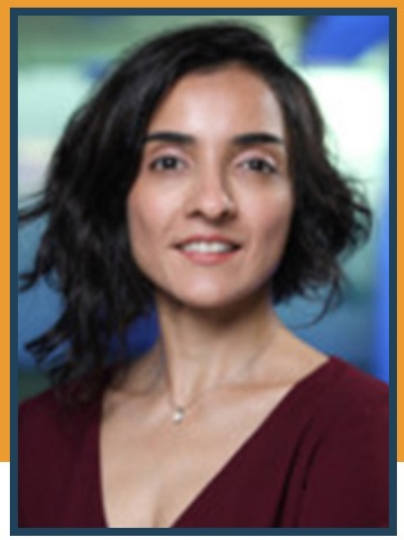
Congratulations to **Jenny Lane** on being hooded over the weekend, and to **Albert Prats-Uribe** for passing his PhD defense.



OHDSI Shoutouts!

Learn more about 2021 Titan Award winner **Asieh Golozar** and her OHDSI journey in the latest collaborator spotlight.

Spotlight: Asieh Golozar

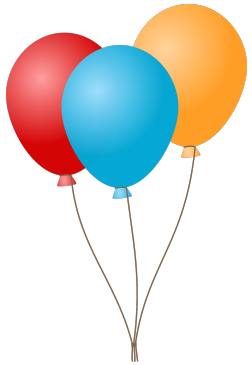


There is a lot of energy and good will in the community. It is open, inclusive, and extremely diverse. I get my energy from the community. The enthusiasm and drive to do the right thing and to improve human lives, and the possibility to work with such diverse group of individuals and learn from them excites me and pushes me to do more. I am extremely proud to be a part of this effort.

OHDSI
OBSERVATIONAL HEALTH DATA SCIENCES AND INFORMATICS

www.ohdsi.org/spotlight-asieh-golozar

OHDSI Shoutouts!



Any shoutouts from the community? Please share and help promote and celebrate OHDSI work!

Have a study published? Please send to sachson@ohdsi.org so we can share during this call and on our social channels.
Let's work together to promote the collaborative work happening in OHDSI!

Three Stages of The Journey

Where Have We Been?

Where Are We Now?

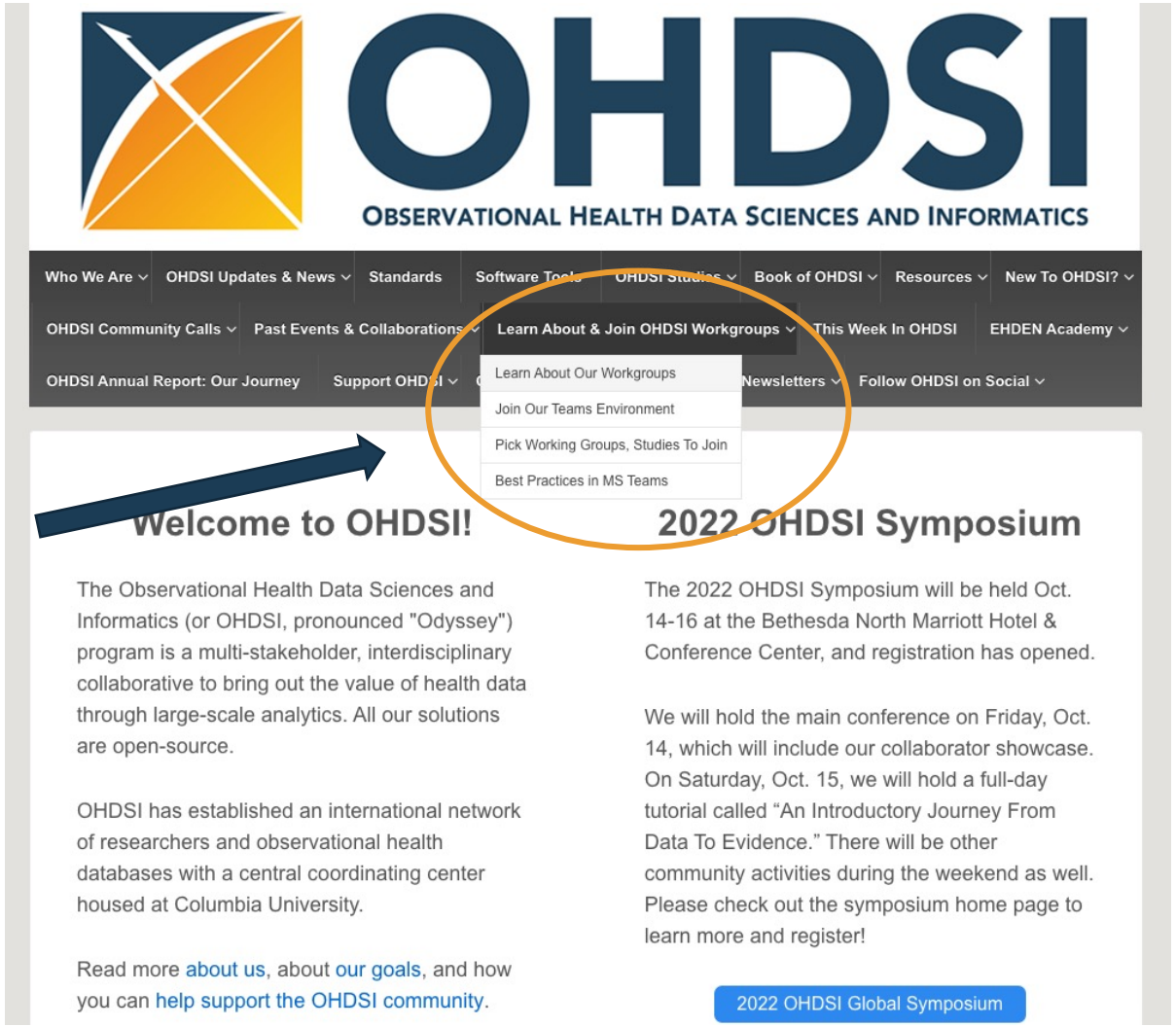
Where Are We Going?

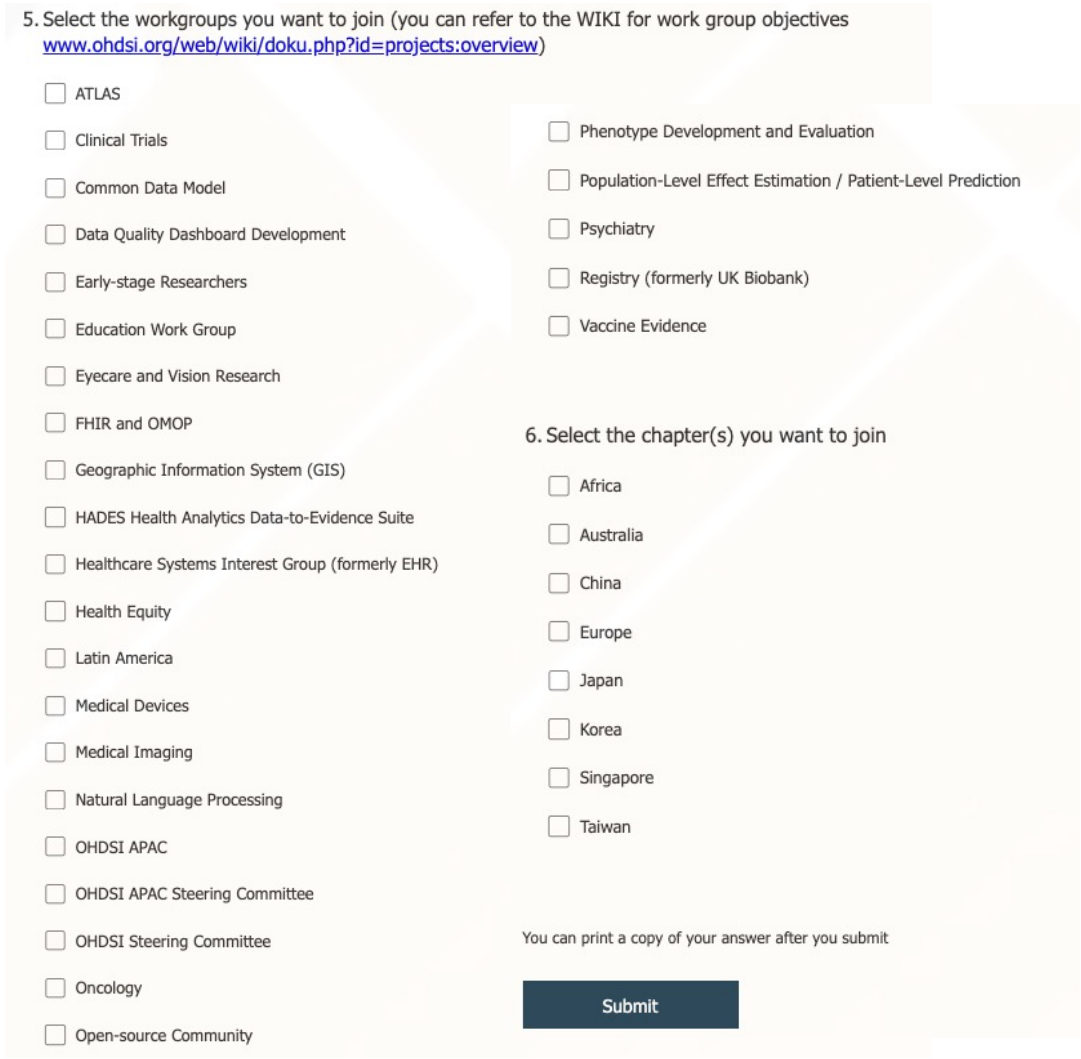
Upcoming Workgroup Calls

Date	Time (ET)	Meeting
Tuesday	12 pm	Common Data Model
Tuesday	3 pm	OMOP CDM Oncology Outreach/Research Subgroup
Wednesday	10 am	FHIR and OMOP Digital Quality Measurements Subgroup (ZOOM)
Wednesday	2 pm	Natural Language Processing
Thursday	12 pm	FHIR and OMOP Oncology Subgroup
Thursday	1 pm	OMOP CDM Oncology Vocabulary/Development Subgroup
Friday	9 am	GIS-Geographic Information System Development
Friday	10 am	Phenotype Development and Evaluation
Friday	10:30 am	Clinical Trials
Friday	10 pm	China Chapter

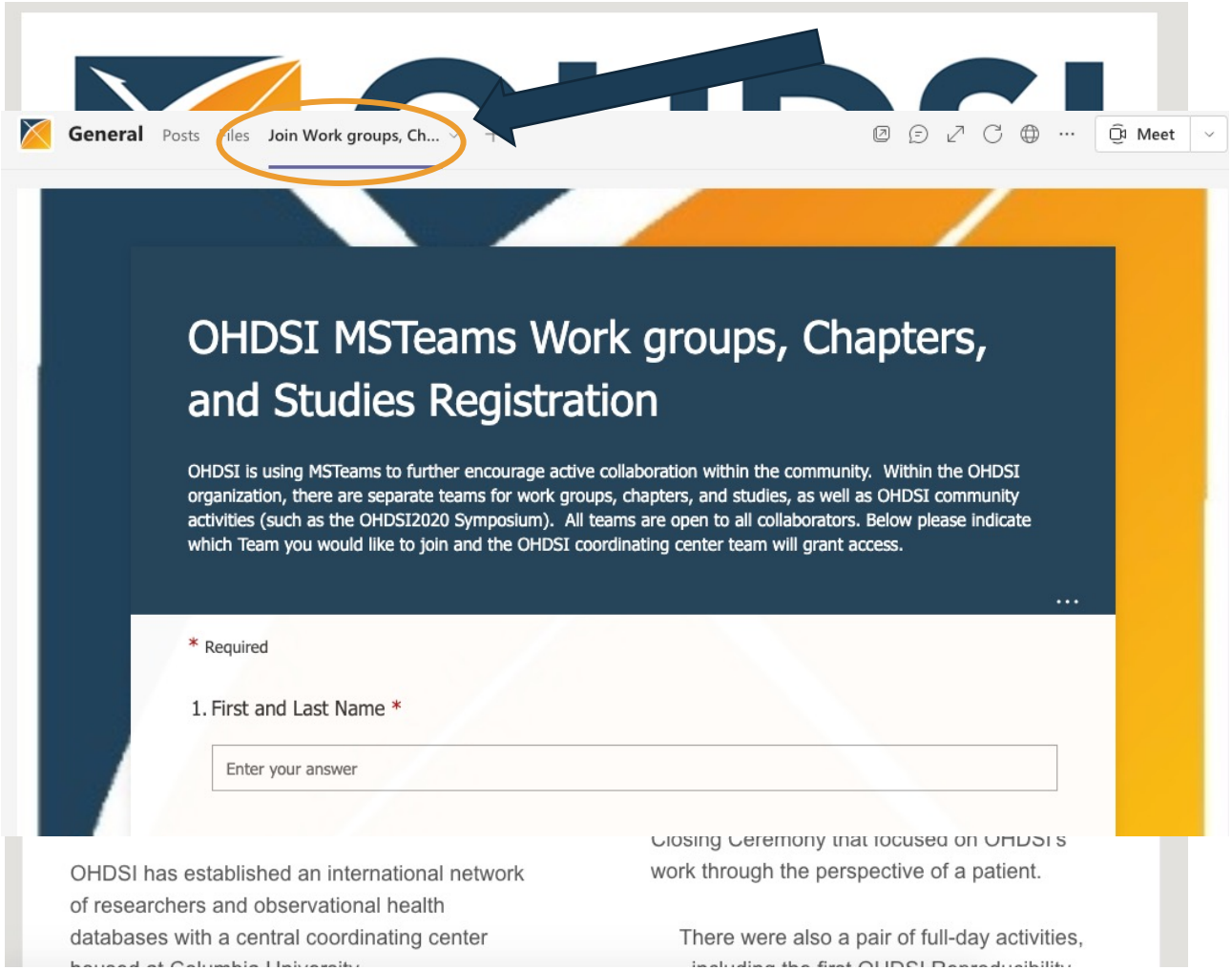
www.ohdsi.org/upcoming-working-group-calls

Get Access To Different Teams/WGs/Chapters





Get Access To Different Teams/WGs/Chapters



5. Select the workgroups you want to join (you can refer to the WIKI for work group objectives www.ohdsi.org/web/wiki/doku.php?id=projects:overview)

- [ ] ATLAS
- [ ] Clinical Trials
- [ ] Common Data Model
- [ ] Data Quality Dashboard Development
- [ ] Early-stage Researchers
- [ ] Education Work Group
- [ ] Eyecare and Vision Research
- [ ] FHIR and OMOP
- [ ] Geographic Information System (GIS)
- [ ] HADES Health Analytics Data-to-Evidence Suite
- [ ] Healthcare Systems Interest Group (formerly EHR)
- [ ] Health Equity
- [ ] Latin America
- [ ] Medical Devices
- [ ] Medical Imaging
- [ ] Natural Language Processing
- [ ] OHDSI APAC
- [ ] OHDSI APAC Steering Committee
- [ ] OHDSI Steering Committee
- [ ] Oncology
- [ ] Open-source Community
- [ ] Phenotype Development and Evaluation
- [ ] Population-Level Effect Estimation / Patient-Level Prediction
- [ ] Psychiatry
- [ ] Registry (formerly UK Biobank)
- [ ] Vaccine Evidence

6. Select the chapter(s) you want to join

- [ ] Africa
- [ ] Australia
- [ ] China
- [ ] Europe
- [ ] Japan
- [ ] Korea
- [ ] Singapore
- [ ] Taiwan

You can print a copy of your answer after you submit

Submit

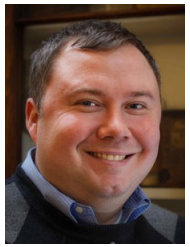
OHDSI2022 Workgroup Activities

Saturday, Oct 15					
Start Time (ET)	End Time (ET)				
800	900	Tutorial	HADES Hack-a-thon: Part 1	Oncology WG	FHIR-OMOP: Terminologies Subgroup, Part 1
900	1000				
1000	1100				FHIR-OMOP: Increasing the Value of Data Through a Rich Set of Attributes
1100	1200				
1200	1300		Lunch	Lunch	Lunch
1300	1400		Methods Research (PLE/PLP)	Oncology WG (continued)	FHIR-OMOP: Data Model Harmonization Subgroup
1400	1500				
1500	1600			Natural Language Processing	FHIR-OMOP: Oncology Subgroup
1600	1700				
1700	1800				FHIR-OMOP: Terminologies Subgroup, Part 2
1800	1900				
Sunday, Oct 16					
800	900	All-Hands Workgroup Meeting			
900	1000				
1000	1100				
1100	1200				
1200	1300	Lunch		Lunch	Lunch
1300	1400	Phenotype Evaluation	HADES Hack-a-thon: Part 2	Education	CDM and Data Quality
1400	1500				
1500	1600			Health Equity	
1600	1700				

www.ohdsi.org/ohdsi2022-workgroup-activities

An Introductory Journey From Data To Evidence

OHDSI2022 Tutorial • Saturday, Oct. 15 • Bethesda, Md.

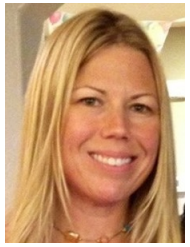


The OHDSI Journey: Where Are We Going?

Patrick Ryan

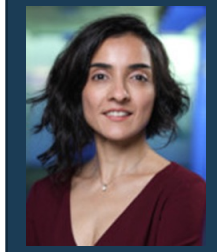
OMOP Common Data Model and Vocabulary

Clair Blacketer



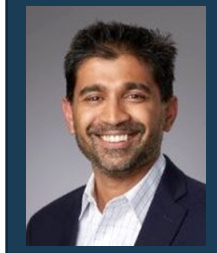
ETL – A Source Database Into OMOP CDM

Melanie Philofsky



Creating Cohort Definitions

Asieh Golozar



Phenotype Evaluations

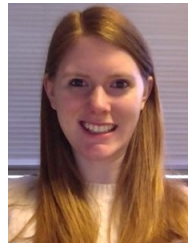
Gowtham Rao

Characterization

Kristin Kostka

Estimation

Martijn Schuemie



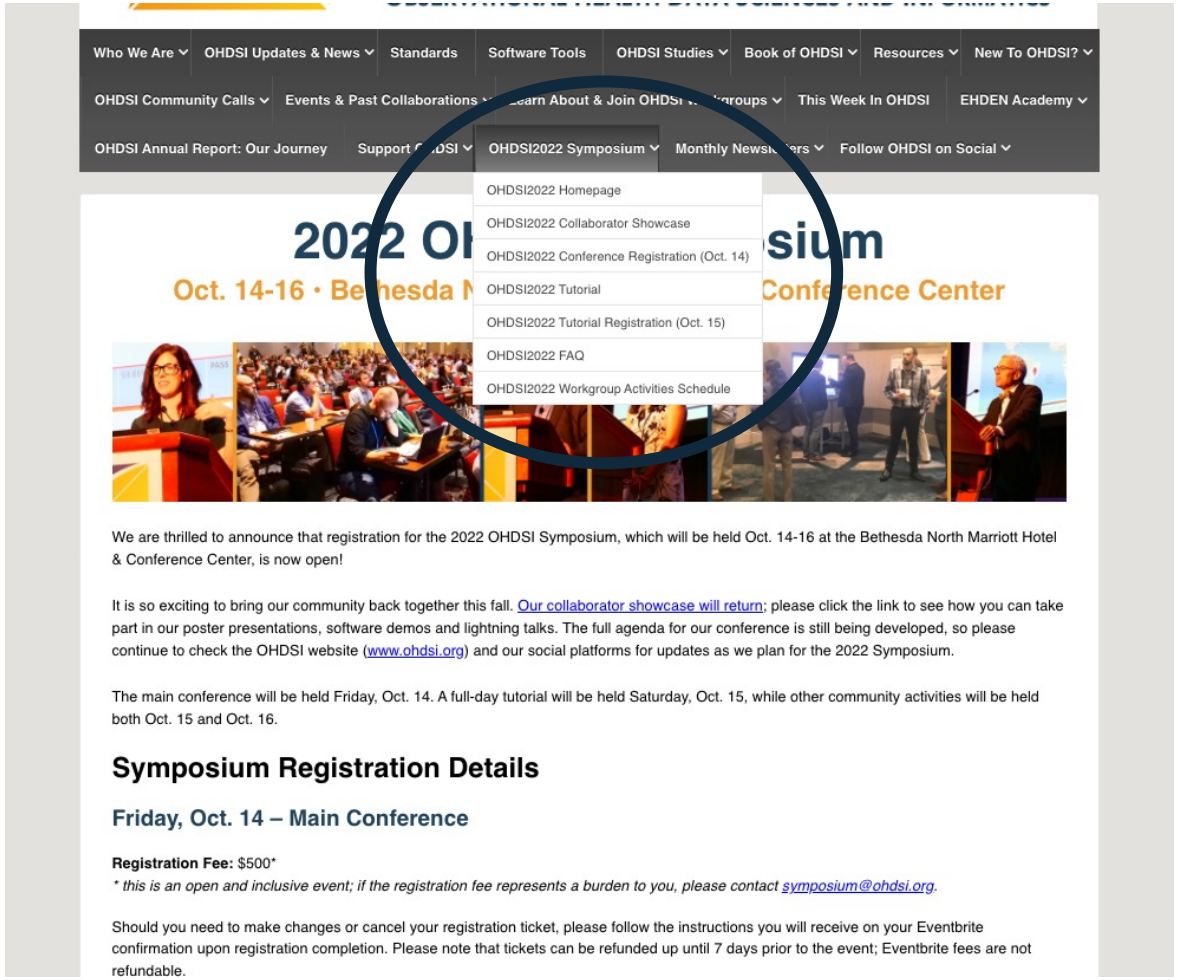
Prediction

Jenna Reps

The OHDSI Journey: Where Do We Go From Here?

George Hripcsak

2022 OHDSI Symposium



www.ohdsi.org/ohdsi2022symposium

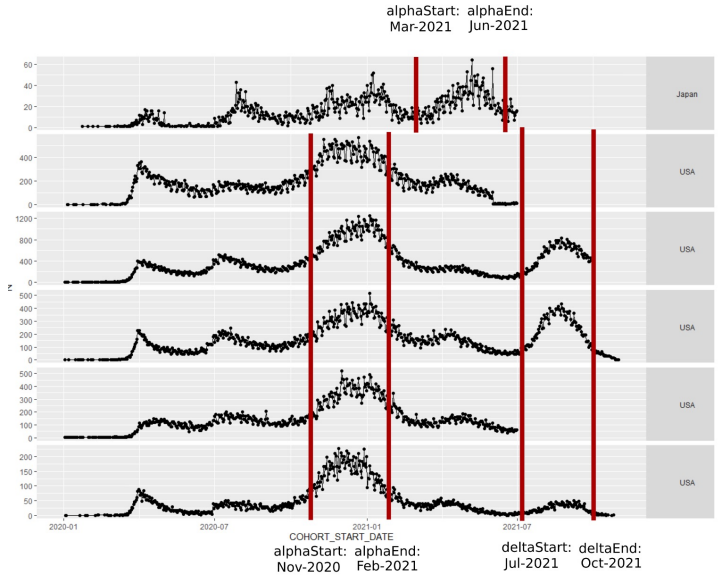
OHDSI: Applying the Decentralized Generalized Linear Mixed Effects Model (dGEM) for Hospital Profiling of COVID-19 Mortality Data across OHDSI Network

Lead: Jessie Tong[1], Jenna Reps [2], Yong Chen[1]

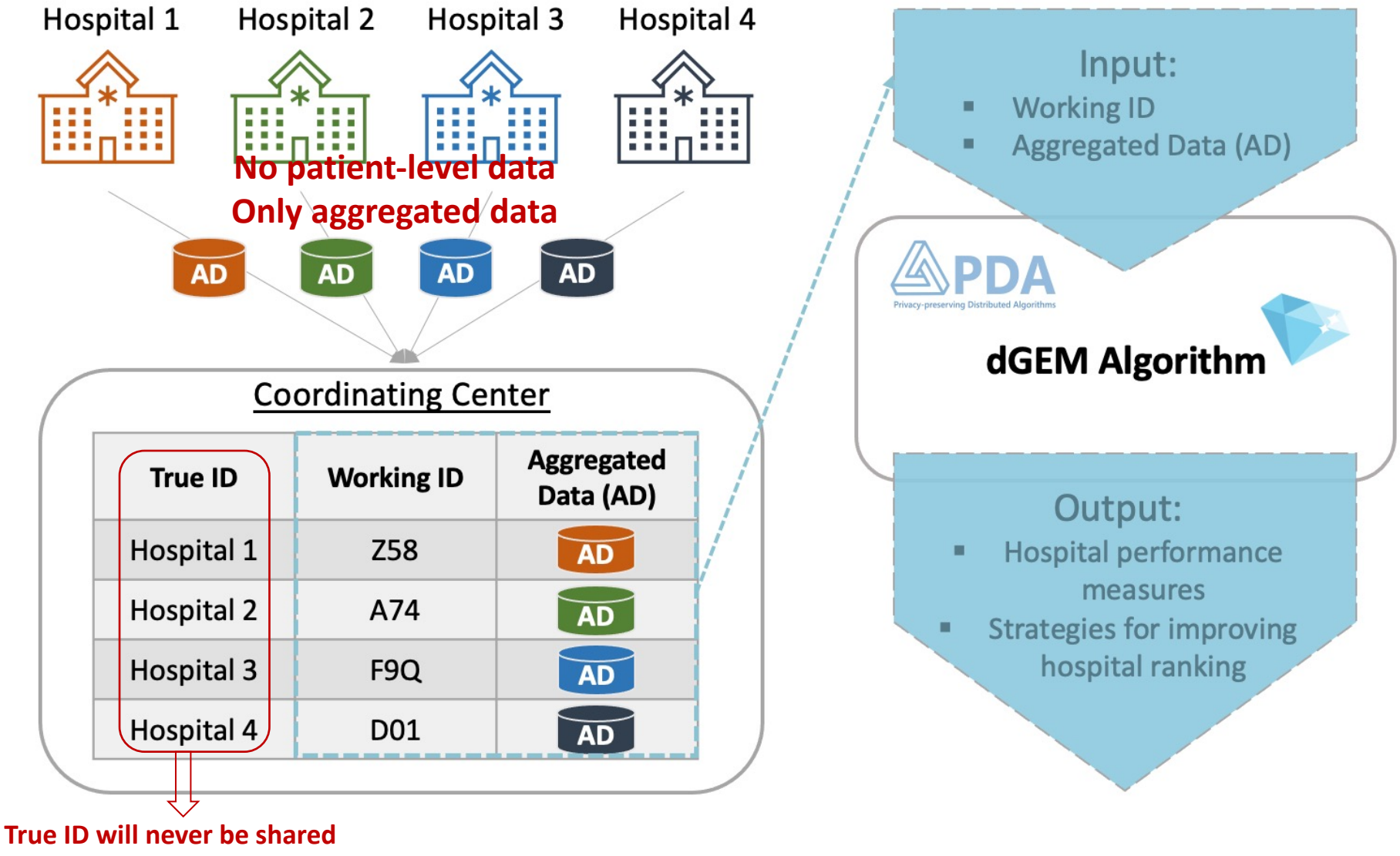
1 Department of Biostatistics, Epidemiology and Informatics (DBEI), the Perelman School of Medicine, University of Pennsylvania
2 Janssen R&D

May 2022

- Aim:
  - A distributed network analyses of hospital profiling on the COVID-19 mortality rate within the OHDSI network
- Method:
  - Decentralized Generalized Linear Mixed Effects Model (dGEM)
    - Privacy-preserving (patient-level and hospital-level), communication-efficient, heterogeneity-aware, hospital-level calibration
- Study cohort details:
  - Two time periods for the hospital profiling:
    - i) during the Alpha wave (in the USA approximately Nov 2020-Feb 2021)
    - ii) during the Delta wave (in the USA approximately Jul 2021-Oct 2021)
  - Outcome of interest:
    - COVID-19 Mortality
  - Measure for hospital profiling:
    - Standardized COVID-19 Mortality Rate
  - Variables:
    - Age, Charlson comorbidity, gender, history of cancer/chronic obstructive pulmonary disease/heart disease/hypertension/hyperlipidemia/kidney disease/obesity/diabetes, number of visits recorded in visit table in 2019



- Target journal and submission timeline:
  - Nature Methods, July 2022


Hospital 1
Hospital 2
Hospital 3
Hospital 4
No patient-level data
Only aggregated data
AD
AD
AD
AD
Coordinating Center
True ID
Working ID
Aggregated Data (AD)
Hospital 1
Z58
Hospital 2
A74
Hospital 3
F9Q
Hospital 4
D01
True ID will never be shared
Input:
Working ID
Aggregated Data (AD)
PDA
Privacy-preserving Distributed Algorithms
dGEM Algorithm
Output:
Hospital performance measures
Strategies for improving hospital ranking

APAC Community Calls

Date	Topic
May 5	Cohort diagnostic tool
May 19	Mini-tutorials #1
June 2	Mini-tutorials #2
June 16	Chapter Mid-year Updates
June 30	EU Symposium Recap
July 14	APAC Study Quarterly Updates Part I
July 28	APAC Study Quarterly Updates Part II

ohdsi.org/apac

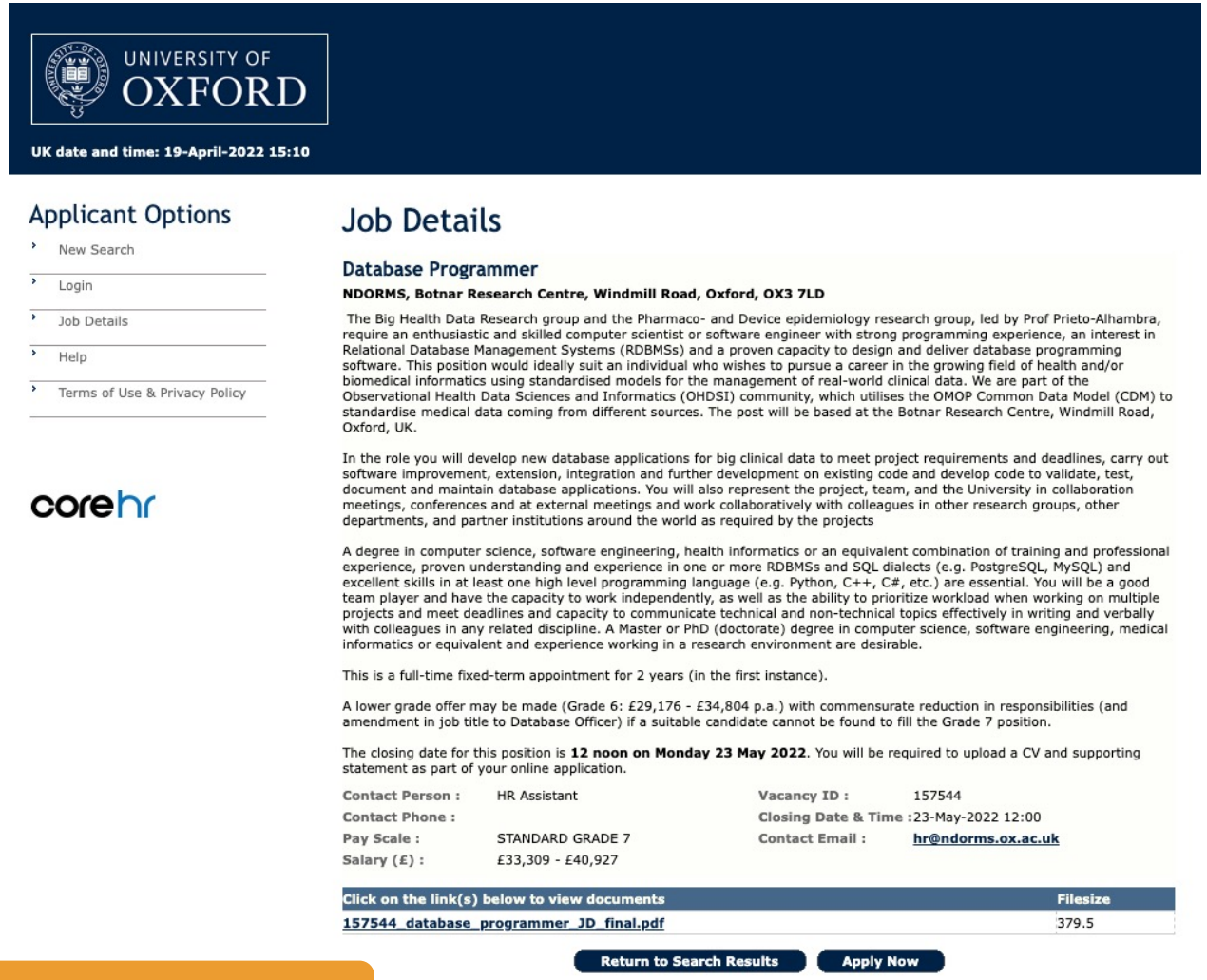
2022 APAC Symposium

ohdsi.org/apac

Opening at Oxford

Dani Prieto-Alhambra's team at Oxford is recruiting a Database Programmer to join the team.

This position will contribute to the standardization and curation of large real world data from the UK and collaborate with the OHDSI, EHDEN and OPTIMA Oncology teams.



UNIVERSITY OF OXFORD

UK date and time: 19-April-2022 15:10

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Job Details

Database Programmer

NDORMS, Botnar Research Centre, Windmill Road, Oxford, OX3 7LD

The Big Health Data Research group and the Pharmaco- and Device epidemiology research group, led by Prof Prieto-Alhambra, require an enthusiastic and skilled computer scientist or software engineer with strong programming experience, an interest in Relational Database Management Systems (RDBMSs) and a proven capacity to design and deliver database programming software. This position would ideally suit an individual who wishes to pursue a career in the growing field of health and/or biomedical informatics using standardised models for the management of real-world clinical data. We are part of the Observational Health Data Sciences and Informatics (OHDSI) community, which utilises the OMOP Common Data Model (CDM) to standardise medical data coming from different sources. The post will be based at the Botnar Research Centre, Windmill Road, Oxford, UK.

In the role you will develop new database applications for big clinical data to meet project requirements and deadlines, carry out software improvement, extension, integration and further development on existing code and develop code to validate, test, document and maintain database applications. You will also represent the project, team, and the University in collaboration meetings, conferences and at external meetings and work collaboratively with colleagues in other research groups, other departments, and partner institutions around the world as required by the projects

A degree in computer science, software engineering, health informatics or an equivalent combination of training and professional experience, proven understanding and experience in one or more RDBMSs and SQL dialects (e.g. PostgreSQL, MySQL) and excellent skills in at least one high level programming language (e.g. Python, C++, C#, etc.) are essential. You will be a good team player and have the capacity to work independently, as well as the ability to prioritize workload when working on multiple projects and meet deadlines and capacity to communicate technical and non-technical topics effectively in writing and verbally with colleagues in any related discipline. A Master or PhD (doctorate) degree in computer science, software engineering, medical informatics or equivalent and experience working in a research environment are desirable.

This is a full-time fixed-term appointment for 2 years (in the first instance).

A lower grade offer may be made (Grade 6: £29,176 - £34,804 p.a.) with commensurate reduction in responsibilities (and amendment in job title to Database Officer) if a suitable candidate cannot be found to fill the Grade 7 position.

The closing date for this position is **12 noon on Monday 23 May 2022**. You will be required to upload a CV and supporting statement as part of your online application.

Contact Person :	HR Assistant	**Vacancy ID :**	157544
Contact Phone :		**Closing Date & Time :**	23-May-2022 12:00
Pay Scale :	STANDARD GRADE 7	**Contact Email :**	hr@ndorms.ox.ac.uk
Salary (£) :	£33,309 - £40,927		

Click on the link(s) below to view documents	Filesize
157544_database_programmer_JD_final.pdf	379.5

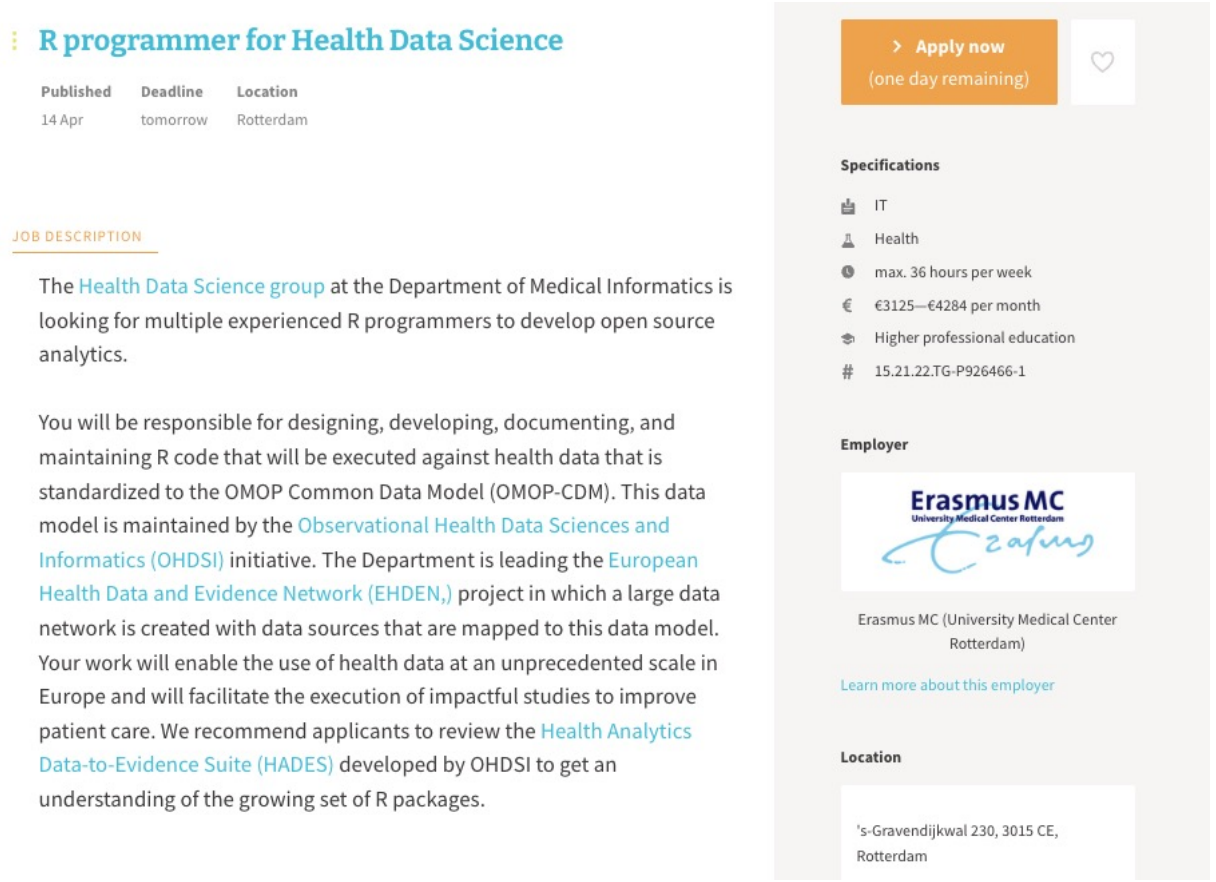
Return to Search Results | Apply Now

Deadline: May 23, 2022

Opening at Erasmus

Peter Rijnbeek and his team at Erasmus Medical Center is recruiting a R programmer for Health Data Science.

This position will be responsible for designing, developing, documenting, and maintaining R code that will be executed against health data that is standardized to the OMOP Common Data Model.



R programmer for Health Data Science

Published	Deadline	Location
14 Apr	tomorrow	Rotterdam

JOB DESCRIPTION

The Health Data Science group at the Department of Medical Informatics is looking for multiple experienced R programmers to develop open source analytics.

You will be responsible for designing, developing, documenting, and maintaining R code that will be executed against health data that is standardized to the OMOP Common Data Model (OMOP-CDM). This data model is maintained by the Observational Health Data Sciences and Informatics (OHDSI) initiative. The Department is leading the European Health Data and Evidence Network (EHDEN,) project in which a large data network is created with data sources that are mapped to this data model. Your work will enable the use of health data at an unprecedented scale in Europe and will facilitate the execution of impactful studies to improve patient care. We recommend applicants to review the Health Analytics Data-to-Evidence Suite (HADES) developed by OHDSI to get an understanding of the growing set of R packages.

Apply now
(one day remaining)

Specifications

- IT
- Health
- max. 36 hours per week
- €3125—€4284 per month
- Higher professional education
- 15.21.22.TG-P926466-1

Employer

Erasmus MC
University Medical Center Rotterdam

Erasmus MC (University Medical Center Rotterdam)

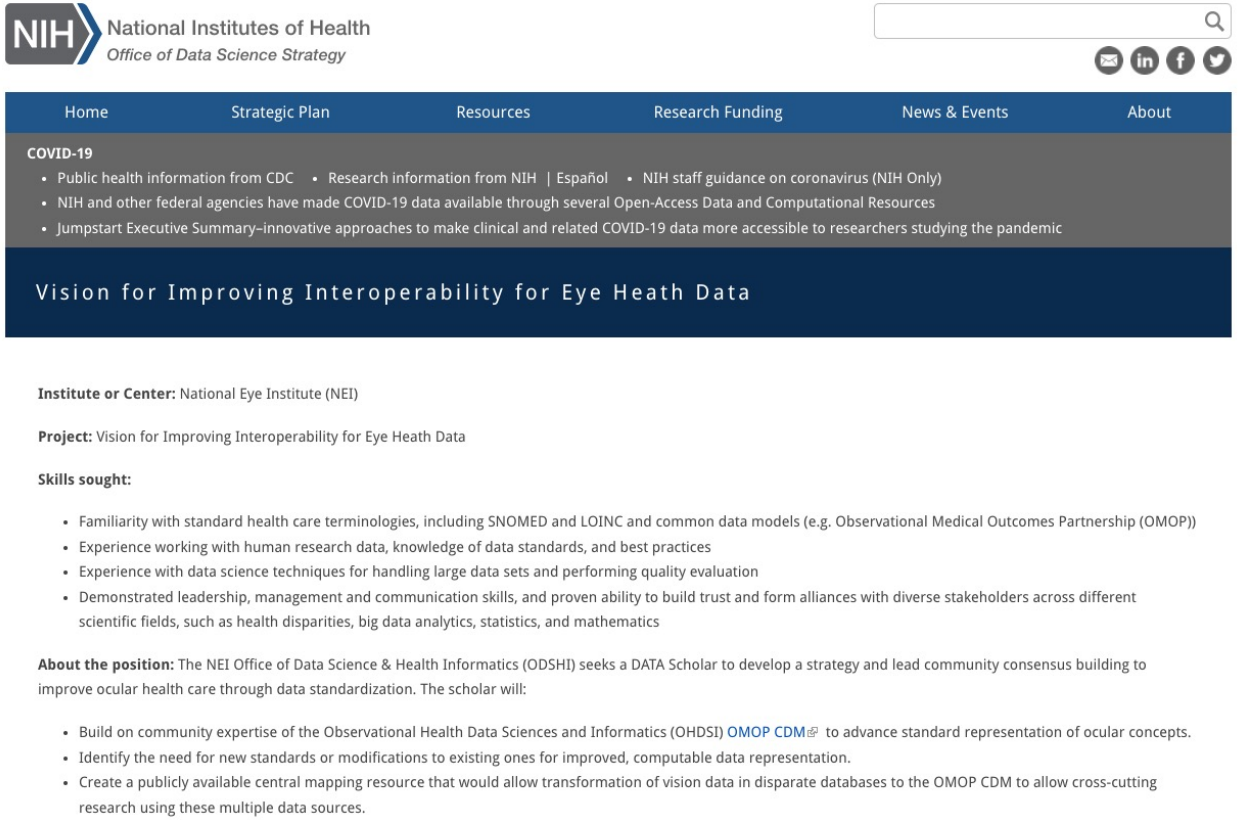
Learn more about this employer

Location

's-Gravendijkwal 230, 3015 CE, Rotterdam

Opening at the National Eye Institute

As mentioned by **Sally Baxter** and **Kerry Goetz** on in their recent Eye Care & Vision Research WG update, the National Eye Institute is looking for a DATA Scholar to develop a strategy and lead community consensus building to improve ocular health care through data standardization.



NIH National Institutes of Health
Office of Data Science Strategy

Home | Strategic Plan | Resources | Research Funding | News & Events | About

COVID-19

- Public health information from CDC • Research information from NIH | Español • NIH staff guidance on coronavirus (NIH Only)
- NIH and other federal agencies have made COVID-19 data available through several Open-Access Data and Computational Resources
- Jumpstart Executive Summary–innovative approaches to make clinical and related COVID-19 data more accessible to researchers studying the pandemic

Vision for Improving Interoperability for Eye Heath Data

Institute or Center: National Eye Institute (NEI)

Project: Vision for Improving Interoperability for Eye Heath Data

Skills sought:

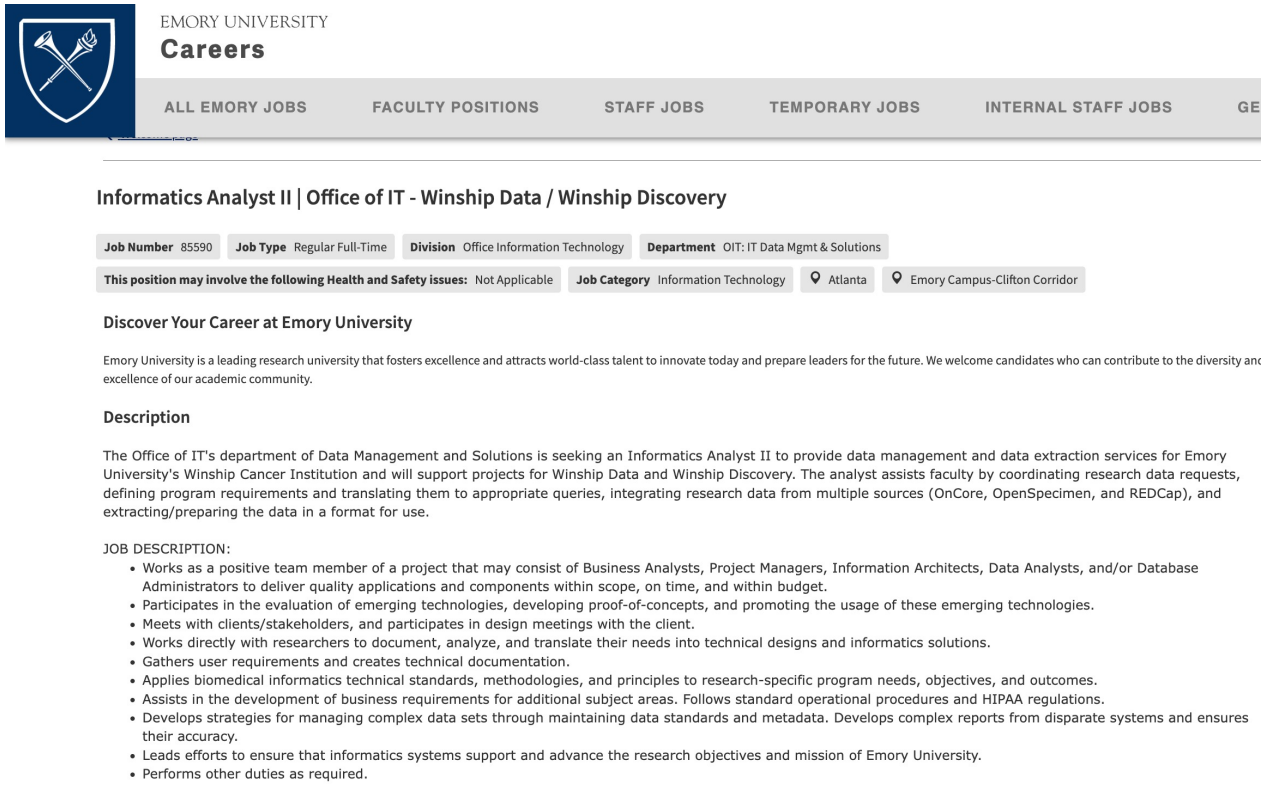
- Familiarity with standard health care terminologies, including SNOMED and LOINC and common data models (e.g. Observational Medical Outcomes Partnership (OMOP))
- Experience working with human research data, knowledge of data standards, and best practices
- Experience with data science techniques for handling large data sets and performing quality evaluation
- Demonstrated leadership, management and communication skills, and proven ability to build trust and form alliances with diverse stakeholders across different scientific fields, such as health disparities, big data analytics, statistics, and mathematics

About the position: The NEI Office of Data Science & Health Informatics (ODSHI) seeks a DATA Scholar to develop a strategy and lead community consensus building to improve ocular health care through data standardization. The scholar will:

- Build on community expertise of the Observational Health Data Sciences and Informatics (OHDSI) OMOP CDM to advance standard representation of ocular concepts.
- Identify the need for new standards or modifications to existing ones for improved, computable data representation.
- Create a publicly available central mapping resource that would allow transformation of vision data in disparate databases to the OMOP CDM to allow cross-cutting research using these multiple data sources.

Opening at Emory University

Daniel Smith shared a recent opening at Emory University in Atlanta for an Informatics Analyst; this position will provide OMOP support for Winship Data and Winship Discovery projects.



EMORY UNIVERSITY
Careers

ALL EMORY JOBS | FACULTY POSITIONS | STAFF JOBS | TEMPORARY JOBS | INTERNAL STAFF JOBS | GE

Informatics Analyst II | Office of IT - Winship Data / Winship Discovery

Job Number 85590 **Job Type** Regular Full-Time **Division** Office Information Technology **Department** OIT: IT Data Mgmt & Solutions
This position may involve the following Health and Safety issues: Not Applicable **Job Category** Information Technology Atlanta Emory Campus-Clifton Corridor

Discover Your Career at Emory University

Emory University is a leading research university that fosters excellence and attracts world-class talent to innovate today and prepare leaders for the future. We welcome candidates who can contribute to the diversity and excellence of our academic community.

Description

The Office of IT's department of Data Management and Solutions is seeking an Informatics Analyst II to provide data management and data extraction services for Emory University's Winship Cancer Institution and will support projects for Winship Data and Winship Discovery. The analyst assists faculty by coordinating research data requests, defining program requirements and translating them to appropriate queries, integrating research data from multiple sources (OnCore, OpenSpecimen, and REDCap), and extracting/preparing the data in a format for use.

JOB DESCRIPTION:

- Works as a positive team member of a project that may consist of Business Analysts, Project Managers, Information Architects, Data Analysts, and/or Database Administrators to deliver quality applications and components within scope, on time, and within budget.
- Participates in the evaluation of emerging technologies, developing proof-of-concepts, and promoting the usage of these emerging technologies.
- Meets with clients/stakeholders, and participates in design meetings with the client.
- Works directly with researchers to document, analyze, and translate their needs into technical designs and informatics solutions.
- Gathers user requirements and creates technical documentation.
- Applies biomedical informatics technical standards, methodologies, and principles to research-specific program needs, objectives, and outcomes.
- Assists in the development of business requirements for additional subject areas. Follows standard operational procedures and HIPAA regulations.
- Develops strategies for managing complex data sets through maintaining data standards and metadata. Develops complex reports from disparate systems and ensures their accuracy.
- Leads efforts to ensure that informatics systems support and advance the research objectives and mission of Emory University.
- Performs other duties as required.

Internship at the Gates Medical Research Institute

Cynthia Sung posted a paid summer internship at the Bill & Melinda Gates Medical Research Institute on the OHDSI forums.

This candidate would transform Tuberculosis clinical trial data into the OMOP CDM.

Bill & Melinda Gates Medical Research Institute Summer Internship - TBD

Apply

Cambridge, MA

Full time

Posted 6 Days Ago

B017325

We are focused on results. Those that can be measured. And those measured in ways beyond numbers.
We see individuals, not issues. We are inspired by passion, and compassion for the wellbeing of people. Our methods are based on logic, driven by rigor, results, issues, and outcomes. Our innovation means trying new things, learning from our mistakes, and consistently refining our approach. Our strategies help us define our path to success, but our effectiveness is based in the aggregate power of our initiatives to impact holistic change.
-Bill and Melinda Gates

Where Are We Going?

Any other announcements of upcoming work, events, deadlines, etc?

Three Stages of The Journey

Where Have We Been?

Where Are We Now?

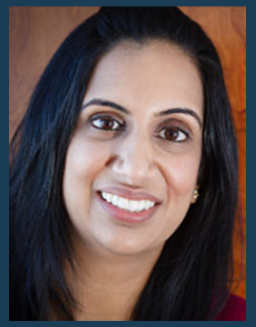
Where Are We Going?

May 10: Mother's Day Breakouts

Data Standards Discussion

Recommended best practices for modeling pregnancy episodes and mother-child linkage

Jill Hardin and Mui Van Zandt



Community Building Discussion

How can OHDSI support collaborator mothers to advance their personal and professional development?

Rupa Makadia and Sarah Seager

Clinical Research Discussion

Clinical Research Opportunities: Brainstorm on maternal health

Alison Callahan, Ru-fong Cheng and Noémie Elhadad