



# The DARWIN EU Initiative

**OHDSI Community Call**  
**May 3, 2022 • 11 am ET**



# Upcoming OHDSI Community Calls

Date	Topic
May 10	Mother's Day-Themed Breakout Discussions
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



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June 21	10-Minute Tutorials
June 28	European Symposium Recap



# 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





# Three Stages of The Journey

**Where Have We Been?**

**Where Are We Now?**

**Where Are We Going?**





# OHDSI Shoutouts!



Congratulations to the team of **Anna Ostropolets, Xintong Li, Rupa Makadia, Gowtham Rao, Peter Rijnbeek, Talita Duarte-Salles, Anthony Sena, Azza Shaoibi, Marc Suchard, Patrick Ryan, Daniel Prieto-Alhambra and George Hripcsak** on the publication of **Factors Influencing Background Incidence Rate Calculation: Systematic Empirical Evaluation Across an International Network of Observational Databases** in *Frontiers in Pharmacology*.

The screenshot shows the article page for "Factors Influencing Background Incidence Rate Calculation: Systematic Empirical Evaluation Across an International Network of Observational Databases" in the journal *Frontiers in Pharmacology*. The page includes the journal logo, a navigation bar with links like SECTION, ABOUT, ARTICLES, and RESEARCH TOPICS, and a list of authors: Anna Ostropolets<sup>1†</sup>, Xintong Li<sup>2†</sup>, Rupa Makadia<sup>3</sup>, Gowtham Rao<sup>3</sup>, Peter R. Rijnbeek<sup>4</sup>, Talita Duarte-Salles<sup>5</sup>, Anthony G. Sena<sup>3,4</sup>, Azza Shaoibi<sup>3</sup>, Marc A. Suchard<sup>6,7</sup>, Patrick B. Ryan<sup>1,3</sup>, Daniel Prieto-Alhambra<sup>2</sup> and George Hripcsak<sup>1,8\*</sup>. A "Check for updates" button is visible in the top right corner of the article preview.



# OHDSI Shoutouts!



Congratulations to the team of **Juan Quiroz, Tim Chard, Zhisheng Sa, Angus Ritchie, Louisa Jorm and Blanca Gallego** on the publication of **Extract, transform, load framework for the conversion of health databases to OMOP** in PLOS One.

## PLOS ONE

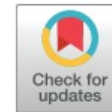
### RESEARCH ARTICLE

#### Extract, transform, load framework for the conversion of health databases to OMOP

Juan C. Quiroz<sup>1\*</sup>, Tim Chard<sup>1</sup>, Zhisheng Sa<sup>1</sup>, Angus Ritchie<sup>2,3</sup>, Louisa Jorm<sup>1</sup>, Blanca Gallego<sup>1</sup>

<sup>1</sup> Centre for Big Data Research in Health, UNSW, Sydney, Australia, <sup>2</sup> Concord Clinical School, University of Sydney, Sydney, Australia, <sup>3</sup> Health Informatics Unit, Sydney Local Health District, Camperdown, Australia

\* [juan.quiroz@unsw.edu.au](mailto:juan.quiroz@unsw.edu.au)



### Abstract

Common data models standardize the structures and semantics of health datasets, enabling reproducibility and large-scale studies that leverage the data from multiple locations and settings. The Observational Medical Outcomes Partnership Common Data Model (OMOP CDM) is one of the leading common data models. While there is a strong incentive to convert datasets to OMOP, the conversion is time and resource-intensive, leaving the research community in need of tools for mapping data to OMOP. We propose an extract, transform, load (ETL) framework that is metadata-driven and generic across source datasets. The ETL framework uses a new data manipulation language (DML) that organizes SQL snippets in YAML. Our framework includes a compiler that converts YAML files with mapping logic into an ETL script. Access to the ETL framework is available via a web application, allowing users to upload and edit YAML files via web editor and obtain an ETL SQL script for use in development environments. The structure of the DML maximizes readability, refactoring, and maintainability, while minimizing technical debt and standardizing the writing of ETL operations for mapping to OMOP. Our framework also supports transparency of the mapping process and reuse by different institutions.

### OPEN ACCESS

**Citation:** Quiroz JC, Chard T, Sa Z, Ritchie A, Jorm L, Gallego B (2022) Extract, transform, load framework for the conversion of health databases to OMOP. PLoS ONE 17(4): e0266911. <https://doi.org/10.1371/journal.pone.0266911>

**Editor:** Thomas Martin Deserno, University of Braunschweig - Institute of Technology, GERMANY

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# 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](mailto: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
Wednesday	8 am	Psychiatry
Wednesday	9 am	ATLAS
Wednesday	11 am	Open-Source Community
Wednesday	12 pm	Health Equity
Wednesday	4 pm	FHIR and OMOP Data Model Harmonization Subgroup (ZOOM)
Wednesday	7 pm	Medical Imaging
Thursday	10 am	Data Quality Dashboard
Thursday	12 pm	FHIR and OMOP Oncology Subgroup
Friday	9 am	GIS-Geographic Information System
Monday	8 am	Early-Stage Researchers
Monday	10 am	Healthcare Systems Interest Group
Tuesday	9 am	OMOP CDM Oncology

[www.ohdsi.org/upcoming-working-group-calls](http://www.ohdsi.org/upcoming-working-group-calls)





# Get Access To Different Teams/WGs/Chapters



# OHDSI

OBSERVATIONAL HEALTH DATA SCIENCES AND INFORMATICS

Who We Are ▾ OHDSI Updates & News ▾ Standards ▾ Software Tools ▾ OHDSI Studies ▾ Book of OHDSI ▾ Resources ▾ New To OHDSI? ▾  
OHDSI Community Calls ▾ Past Events & Collaborations ▾ Learn About & Join OHDSI Workgroups ▾ This Week In OHDSI ▾ EHDEN Academy ▾  
OHDSI Annual Report: Our Journey ▾ Support OHDSI ▾ Newsletters ▾ Follow OHDSI on Social ▾

Learn About Our Workgroups  
Join Our Teams Environment  
Pick Working Groups, Studies To Join  
Best Practices in MS Teams

## Welcome to OHDSI!

The Observational Health Data Sciences and Informatics (or OHDSI, pronounced "Odyssey") program is a multi-stakeholder, interdisciplinary collaborative to bring out the value of health data through large-scale analytics. All our solutions are open-source.

OHDSI has established an international network of researchers and observational health databases with a central coordinating center housed at Columbia University.

Read more [about us](#), about [our goals](#), and how you can [help support the OHDSI community](#).

## 2022 OHDSI Symposium

The 2022 OHDSI Symposium will be held Oct. 14-16 at the Bethesda North Marriott Hotel & Conference Center, and registration has opened.

We will hold the main conference on Friday, Oct. 14, which will include our collaborator showcase. On Saturday, Oct. 15, we will hold a full-day tutorial called "An Introductory Journey From Data To Evidence." There will be other community activities during the weekend as well. Please check out the symposium home page to learn more and register!

2022 OHDSI Global Symposium

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](http://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




@OHDSI

[www.ohdsi.org](http://www.ohdsi.org)

#JoinTheJourney

ohdsi

# Get Access To Different Teams/WGs/Chapters



**General** Posts Files **Join Work groups, Chapters, and Studies** Meet

## OHDSI MTeams Work groups, Chapters, and Studies Registration

OHDSI is using MTeams to further encourage active collaboration within the community. Within the OHDSI organization, there are separate teams for work groups, chapters, and studies, as well as OHDSI community activities (such as the OHDSI2020 Symposium). All teams are open to all collaborators. Below please indicate which Team you would like to join and the OHDSI coordinating center team will grant access.

\* Required

1. First and Last Name \*

Enter your answer

OHDSI has established an international network of researchers and observational health databases with a central coordinating center based at Columbia University.

Closing Ceremony that focused on OHDSI's work through the perspective of a patient.

There were also a pair of full-day activities, including the first OHDSI Reproducibility...

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](http://www.ohdsi.org/web/wiki/doku.php?id=projects:overview))

- |   |  |
|---|--|
| <input type="checkbox"/> ATLAS  | <input type="checkbox"/> Phenotype Development and Evaluation                          |
| <input type="checkbox"/> Clinical Trials                                  | <input type="checkbox"/> Population-Level Effect Estimation / Patient-Level Prediction |
| <input type="checkbox"/> Common Data Model                                | <input type="checkbox"/> Psychiatry  |
| <input type="checkbox"/> Data Quality Dashboard Development               | <input type="checkbox"/> Registry (formerly UK Biobank)                                |
| <input type="checkbox"/> Early-stage Researchers                          | <input type="checkbox"/> Vaccine Evidence  |
| <input type="checkbox"/> Education Work Group                             |  |
| <input type="checkbox"/> Eyecare and Vision Research                      |  |
| <input type="checkbox"/> FHIR and OMOP                                    |  |
| <input type="checkbox"/> Geographic Information System (GIS)              |  |
| <input type="checkbox"/> HADES Health Analytics Data-to-Evidence Suite    |  |
| <input type="checkbox"/> Healthcare Systems Interest Group (formerly EHR) |  |
| <input type="checkbox"/> Health Equity                                    |  |
| <input type="checkbox"/> Latin America                                    |  |
| <input type="checkbox"/> Medical Devices                                  |  |
| <input type="checkbox"/> Medical Imaging                                  |  |
| <input type="checkbox"/> Natural Language Processing                      |  |
| <input type="checkbox"/> OHDSI APAC                                       |  |
| <input type="checkbox"/> OHDSI APAC Steering Committee                    |  |
| <input type="checkbox"/> OHDSI Steering Committee                         |  |
| <input type="checkbox"/> Oncology   |  |
| <input type="checkbox"/> Open-source Community                            |  |
6. Select the chapter(s) you want to join
- |                                    |
|------------------------------------|
| <input type="checkbox"/> Africa    |
| <input type="checkbox"/> Australia |
| <input type="checkbox"/> China     |
| <input type="checkbox"/> Europe    |
| <input type="checkbox"/> Japan     |
| <input type="checkbox"/> Korea     |
| <input type="checkbox"/> Singapore |
| <input type="checkbox"/> Taiwan    |
- You can print a copy of your answer after you submit
- Submit**





# OHDSI Dev Con

## OHDSI DevCon 2022 Welcomes & Mentors New Contributors To Our Open-Source Environment

The Open-Source Community hosted the first Dev Con on Friday, April 22 as a way of accepting and mentoring new contributors to our environment. Organized by **Paul Nagy** and **Adam Black**, the event included eight workshops, talks and a panel discussion to both welcome and engage both current and future developers within OHDSI.

All videos from this session have or will be uploaded to this page. A big announcement from DevCon was the formation of the Khieron Contributor Cohort, which will help onboard and mentor open-source developers in the community. If you are interested in joining the effort, [please fill out the application](#).

To learn more about the Khieron Contributor Cohort, please check out the State of the Open Source Community presentation below.

### OHDSI DevCon Keynote

Open-Source Software and Science  
Open-source software at the core of OHDSI

Methods research → HADES → ATLAS → Open Source Software and Science

Watch on [YouTube](#)

Martijn Schuermie provided the keynote address during DevCon 2022, entitled "Open-Source Software and Science ... Obviously." [His slides are available here](#).

### State Of The Community Presentation

State of the OHDSI Open Source Community  
contributors across multiple OHDSI projects as a cohort

DevCon 2022 Logo

### Agenda

## Workshops

### ATLAS (Anthony Sena)

DevCon 2022 Workshop: ATLAS (Anth...)

- Follow the ATLAS install guide: <https://github.com/OHDSI/atlas/wiki/Atlas-Setup-Guide>
- Clone the ATLAS GitHub repository to your machine using Git
- Run `npm run build` to build the project (download all of the JavaScript dependencies)
- Start up a web server to host the code.

### HADES Introduction (Adam Black)

DevCon 2022 Workshop: HADES Intro...  
Follow along

### WebAPI (Anthony Sena)

DevCon 2022 Workshop: WebAPI (Ant...)

- Follow the WebAPI install guide: <https://github.com/OHDSI/WebAPI/wiki/WebAPI-Installation-Guide> with a few notes:
- For development, you can run WebAPI in Apache NetBeans
- Clone the WebAPI GitHub repository to your machine using Git
- Open the project in Apache NetBeans. You may get a message the 1st time indicating that the project has issues - this is normal. NetBeans will "prime" the project by downloading all of the Java dependencies.

### Cohort Diagnostics (James Gilbert)

DevCon 2022 Workshop: CohortDiagn...

Today: From Ownership to Stewardship

### White Rabbit (Maxim Moinat)

DevCon 2022 Workshop: White Rabbit...

- Do you want to learn Java?
- Do you have experience with different data models and data types?
- Do you want to play with White Rabbit?
- Do you have some SQL knowledge?

One of the few OHDSI tools where no OMOP CDM or statistical knowledge needed! -> but where you can learn about the CDM

### Patient-Level Prediction (Jenna Reys)

DevCon 2022 Workshop: Patient-Level...

- The first part is data extraction using `getPipData()` - you have flexibility in the covariates.
- The second part is the model development and validation using `runPip()` - you have flexibility with: feature engineering, sampling, data splitting and the modelling.

### Data Quality Dashboard (Clair Blacketer)

DevCon 2022 Workshop: Data Quality ...

- DQD developed in 2019 and presented at the OHDSI Global Symposium
- Initial team included Frank DeFalco, Ajit Londhe, and Anthony Molinaro
- Response to a need described in [this paper](#) detailing the gaps in current data quality evaluation tools for regulatory purposes
- We set out to create a unique, standardized data quality tool that did not require us to write thousands of SQL statements but still met (and hopefully exceeded) the needs of regulators

### Cyclops (Marc Suchard)

DevCon 2022 Workshop: Cyclops (Ma...)

- Linear, logistic, Poisson
- Conditioned models
- Case-controlled (logistic)
- Self-controlled and cohort (logistic)
- Survival

But: Conditioning -> very expensive likelihood  $\sigma^2/\sum_{j=1}^p \sigma_j^2$

- Conex optimization
- Cyclic coordinate descent (CCD) for sparse X and tall Y
- Scalable for millions of samples and covariates
- [github.com/ohdsi/cyclops](https://github.com/ohdsi/cyclops), Suchard et al. (2013); Simpson et al. (2014); Mittal et al. (2014)

[www.ohdsi.org/devcon2022](http://www.ohdsi.org/devcon2022)

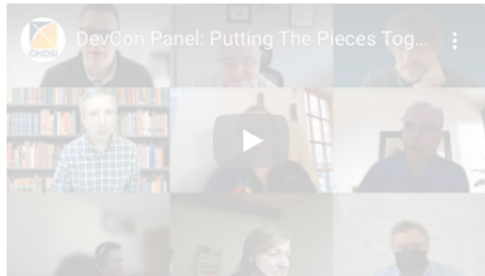


# Khieron Contributor Cohort Application

## State Of The Community Presentation



## Panel: Putting The Pieces Together



### Agenda

The event began at 8 am with several workshops that were held over the first two hours of the session. Each workshop will be loaded below the agenda.

8 am: ATLAS (Anthony Sena); HADES Introduction (Adam Black),  
8:30 am: WebAPI (Anthony Sena); CohortDiagnostics (James Gilbert)  
9 am: WhiteRabbit/Rabbit in a Hat (Maxim Molnat); Patient-Level Prediction (Jenna Reys)  
9:30 am: Data Quality Dashboard (Clair Blacketer); Cyclops (Marc Suchard)


At 10 am, both Paul Nagy and Adam Black shared [the State of the Open-Source Community presentation](#). That talk led into [the keynote talk](#), which was given by Martijn Schuemle.

The event closed with [an industry panel discussion](#) around the theme of "Putting The Pieces Together." The panelists included OHDSI's Lee Evans (Broadsea), Microsoft's Cory Stevenson (OHDSI on Azure), AWS's James Wiggins (OHDSI on AWS), and Google's Vivian Neille (OHDSI on Google Cloud).

[Click Here To Apply For The 2022-23 Khieron Contributor Cohort](#)

[Join The Open-Source Community Workgroup in MS Teams](#)

[www.ohdsi.org/devcon2022](http://www.ohdsi.org/devcon2022)



### Khieron Contributor Cohort Application Form

If you are interested in joining the first OHDSI Khieron Contributor Cohort, please fill out this form.

**Email \***  
Valid email  
This form is collecting emails. [Change settings](#)

**Name \***  
Short answer text

**Describe your interest and prior experience with OHDSI open source software. \***  
Long answer text

**Describe your prior experience with software development (languages used, projects you've worked on, etc.) \***  
Long answer text


**Please provide your github username. \***  
Short answer text

**Are you able to commit 200 hrs (~4 hrs/week or 10% of your time) for the next year? \***  
☐ Yes  
☐ No

**Provide your resume/CV. \***  
 [View folder](#)



# OHDSI Dev Con



# OHDSI

OBSERVATIONAL HEALTH DATA SCIENCES AND INFORMATICS

[Who We Are](#) [OHDSI Updates & News](#) [Standards](#) [Software Tools](#) [OHDSI Studies](#) [Book of OHDSI](#) [Resources](#) [New To OHDSI?](#)  
[OHDSI Community Calls](#) [Events & Past Collaborations](#) [Learn About & Join OHDSI Workgroups](#) [This Week In OHDSI](#) [EHDEN Academy](#)  
[OHDSI Annual Report: Our](#) [OHDSI2022 Symposium](#) [Monthly Newsletters](#) [Follow OHDSI on Social](#)

## Welcome

The Observational Health Data Sciences and Informatics (or OHDSI) program is a multi-institutional, collaborative to bring together data scientists, clinicians, and public health experts through large-scale analytics. All our solutions are open-source.

## 2022 OHDSI Symposium

The 2022 OHDSI Symposium will be held Oct. 14-16 at the Bethesda North Marriott Hotel & Conference Center, and registration has opened.

We will hold the main conference on Friday, Oct. 14, which will include our collaborator showcase.



# 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](https://ohdsi.org/apac)





# Latest OHDSI Newsletter is Available



## The Journey Newsletter (May 2022)

April was highlighted by DevCon 2022, which featured eight recorded open-source workshops, talks from leaders in our open-source community, a panel discussion featuring leaders from Google, Microsoft and Amazon, and a new opportunity for contribution and mentorship within the community. Learn more about this event, a new OHDSI sponsorship program and plenty more in the latest edition of The Journey newsletter. [#JoinTheJourney](#)

## May Update Videocast

**On The Journey**  
  
Patrick Ryan Craig Sachsen  
In the latest On The Journey video, Patrick Ryan and Craig Sachsen reflect on the talks and workshops from DevCon, the opportunities for open-source developers within the newly formed Khieron Contributor Cohort, the new OHDSI Sponsorship program and an impressive set of community publications from April.

## Community Updates

### Where Have We Been?

- OHDSI DevCon brought together more than 100 collaborators interested in open-source development for a session of workshops, talks and a full panel, all of which are available on [the DevCon homepage](#). Learn more about this event, and the new Khieron Contributor Cohort, later in this newsletter.
- Our community produced 10 peer-reviewed publications this month, with variety in both focuses and geographies. Links to each publication is available at the bottom of this newsletter.

### Where Are We Now?

- OHDSI workgroups continue to address important challenges across data standards, methods research, open-source development and clinical applications. Within the last month, the newly formed Eye Care & Vision Research team [shared its mission and goals with the community](#). Get to know what is happening and how you can impact these efforts [on our workgroups homepage](#).
- In order to foster growth in our community of nearly 3,000 volunteers across six continents, the OHDSI Coordinating Center at Columbia University [has created the OHDSI Sponsorship program](#). This program allows both corporations and individuals to make meaningful contributions in support of OHDSI's central coordinating activities. There are three levels of support, including donation amount and benefits to the sponsor, detailed below. Any level of support enhances both our community and our mission.

### Where Are We Going?

- Registration for [the 2022 OHDSI Symposium](#), which will be held Oct. 14-16 at the Bethesda North Marriott Hotel & Conference Center, is now open. The main conference will held Friday, Oct. 14, while a full-day tutorial for community newcomers entitled "[An Introductory Journey From Data To Evidence](#)" will be held Saturday, Oct. 15. Workgroup activities will be held throughout Oct. 15-16.

## DevCon Addresses State Of Open-Source Community, Opens Opportunities For Mentorship Among New Developers

Time (ET)	Track 1	Track 2
8 am	ATLAS (Anthony Sena)	HADES Introduction (Adam Black)
8:30 am	WebAPI (Anthony Sena)	CohortDiagnostics (James Gilbert)
9 am	White Rabbit/Rabbit In A Hat (Maxim Molnat)	Patient-Level Prediction (Jenna Reys)
9:30 am	Data Quality Dashboard (Clair Blacketer)	Cyclops (Marc Suchard)
10 am	State of OHDSI Development (Adam Black and Paul Nagy)	
10:20 am	Keynote (Martijn Schuermans)	
11 am	Panel Discussion (Putting The Pieces Together) Lee Evans - Broadsea (OHDSI) Cory Stevenson - OHDSI on Azure (Microsoft) James Wiggins - OHDSI on AWS (Amazon) Vivian Neille - OHDSI on Google Cloud	

The Open-Source Community hosted the first Dev Con recently as a way of accepting and mentoring new contributors to our environment. Organized by **Paul Nagy** and **Adam Black**, the event included eight workshops, talks and a panel discussion to both welcome and engage both current and future developers within OHDSI. All videos from the workshops and talks are available [on the DevCon homepage](#).

An important announcement from DevCon was the formation of the Khieron Contributor Cohort, which will help onboard and mentor open-source developers in the community. This was discussed [during the State of the Open-Source Community presentation](#). If you are interested in joining the effort, [please fill out the application](#).

[DevCon Homepage \(with videos of all workshop and talks\)](#)

[Khieron Contributor Cohort Application Form](#)

## Publications

Luo, C., Islam, M.N., Sheils, N.E. et al. [DLMM as a lossless one-shot algorithm for collaborative multi-site distributed linear mixed models](#). Nat Commun 13, 1678 (2022). doi.org/10.1038/s41467-022-29160-4

Kim, S., Bang, J.L., Boo, D. et al. [Second primary malignancy risk in thyroid cancer and matched patients with and without radioiodine therapy analysis from the observational health data sciences and informatics](#). Eur J Nucl Med Mol Imaging (2022). <https://doi.org/10.1007/s00259-022-05779-9>

Raventós B, Pistillo A, Reyes C, et al. [Impact of the COVID-19 pandemic on diagnoses of common mental health disorders in adults in Catalonia, Spain: a population-based cohort study](#). BMJ Open 2022;12:e057866. doi: 10.1136/bmjopen-2021-057866

Tae-Hoon Kim, SiHyeong Noh, Youe Ree Kim, ChungSub Lee, Ji Eon Kim, Chang-Won Jeong, Kwon-Ha Yoon, [Development and validation of a management system and dataset quality assessment tool for the Radiology Common Data Model \(R\\_CDM\): A case study in liver disease](#), International Journal of Medical Informatics, Volume 162, 2022, 104759, ISSN 1386-5056, doi.org/10.1016/j.ijmedinf.2022.104759.

Katie R Bradwell, Jacob T Wooldridge, Benjamin Amor, Tellen D Bennett, Adit Anand, Carolyn Bremer, Yun Jae Yoo, Zhenglong Qian, Steven G Johnson, Emily R Pfaff, Andrew T Girvin, Amin Manna, Emily A Niehaus, Stephanie S Hong, Xiaohan Tanner Zhang, Richard L Zhu, Mark Bissell, Nabeel Qureshi, Joel Saltz, Melissa A Haendel, Christopher G Chute, Harold P Lehmann, Richard A Moffitt, on behalf of the N3C Consortium, [Harmonizing units and values of quantitative data elements in a very large nationally pooled electronic health record \(EHR\) dataset](#), Journal of the American Medical Informatics Association, 2022;, ocac054, doi.org/10.1093/jamia/ocac054



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www.ohdsi.org

#JoinTheJourney



ohdsi



# Latest OHDSI Newsletter is Available

The screenshot shows the OHDSI website header with the logo and navigation menu. The 'Monthly Newsletters' dropdown menu is open, showing options to 'Subscribe', 'May 2022', 'April 2022', 'March 2022', 'February 2022', '2021 In Review', and 'Full Archive'. An orange circle highlights the 'Subscribe' option, and a blue arrow points to it from the right. The main content area features a 'Welcome to OHDSI!' section with text about the program and a 'Symposium' section with details about the main conference on Friday, Oct. 14, and a full-day tutorial on Saturday, Oct. 15.

**OHDSI**  
OBSERVATIONAL HEALTH DATA SCIENCES AND INFORMATICS

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**Welcome to OHDSI!**

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OHDSI has established an international network of researchers and observational health databases with a central coordinating center

**Symposium**


The main conference will be held Oct. 14, which will include our collaborator showcase. On Saturday, Oct. 15, we will hold a full-day tutorial called "An Introductory Journey From Data To Evidence." There will be other community activities during the weekend as well.





# 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

### Applicant Options

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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 :	<a href="mailto:hr@ndorms.ox.ac.uk">hr@ndorms.ox.ac.uk</a>
Salary (£) :	£33,309 - £40,927		

Click on the link(s) below to view documents	Filesize
<a href="#">157544_database_programmer_JD_final.pdf</a>	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)

[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.



**Institute or Center:** National Eye Institute (NEI)

**Project:** Vision for Improving Interoperability for Eye Health 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<sup>®</sup> 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



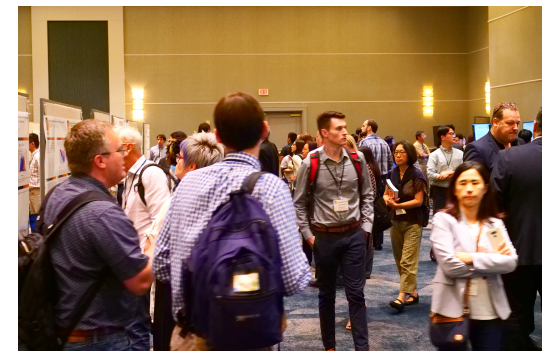


# 2022 OHDSI Symposium

Registration is OPEN for  
**#OHDSI2022!**

The 2022 OHDSI Symposium  
will be held Oct. 14-16 at the  
Bethesda North Marriott Hotel  
& Conference Center.

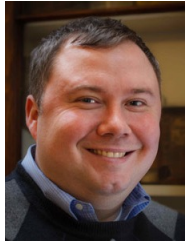
[www.ohdsi.org/ohdsi2022symposium](http://www.ohdsi.org/ohdsi2022symposium)





# 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 European Symposium



## EUROPEAN OHDSI SYMPOSIUM

Symposium: June 24th  
Workshops: 25-26th

*"All aboard!"*

**New Date!!**

We'll meet again for  
one journey ahead



Organised by:

Erasmus MC  
University Medical Center Rotterdam  
*Erasmus*

Health  
Data  
Science

[www.ohdsi-europe.org/symposium-2022](http://www.ohdsi-europe.org/symposium-2022)



# 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 3 Community Call: DARWIN EU



**Peter Rijnbeek**

**Head of the Department of  
Medical Informatics**

**Erasmus  
Medical Center**

Real-world healthcare data

**Erasmus MC contracted to  
establish DARWIN EU®  
Coordination Centre for  
the European Medicines  
Agency**

The Erasmus MC will work closely with the European Medicines Agency on the establishment of the Coordination Centre for the Data Analysis and Real World Interrogation Network (DARWIN EU®).