State Of The Open-Source Community

OHDSI Community Call
April 26, 2022 • 11 am ET
## Upcoming OHDSI Community Calls

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 3</td>
<td>DARWIN EU</td>
</tr>
<tr>
<td>May 10</td>
<td>Mother’s Day-Themed Breakouts</td>
</tr>
<tr>
<td>May 17</td>
<td>OHDSI Debates</td>
</tr>
<tr>
<td>May 24</td>
<td>Open Studies</td>
</tr>
<tr>
<td>May 31</td>
<td>Workgroup OKRs</td>
</tr>
</tbody>
</table>
## Upcoming OHDSI Community Calls

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 3</td>
<td>DARWIN EU</td>
</tr>
<tr>
<td>May 10</td>
<td>Mother’s Day-Themed Breakouts</td>
</tr>
<tr>
<td>May 17</td>
<td>OHDSI Debates</td>
</tr>
<tr>
<td>May 24</td>
<td>Open Studies</td>
</tr>
<tr>
<td>May 31</td>
<td>Workgroup OKRs</td>
</tr>
</tbody>
</table>

@OHDSI  
www.ohdsi.org  
#JoinTheJourney
May 3 Community Call: DARWIN EU

Peter Rijnbeek
Head of the Department of Medical Informatics
Erasmus Medical Center

Dani Prieto-Alhambra
Professor
University of Oxford and 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®).
Three Stages of The Journey

Where Have We Been?
Where Are We Now?
Where Are We Going?
Congratulations to the team of Katie Bradwell, Jacob Wooldridge, Benjamim Amor, Tellen Bennett, Adit Anand, Carolyn Bremer, Yun Jae Yoo, Zhelong Qian, Steven Johnson, Emily Pfaff, Andrew Girvin, Amin Manna, Emily Niehaus, Stephanie Hong, Xiaohan Tanner Zhang, Richard Zhu, Mark Bissell, Nabeel Qureshi, Joel Saltz, Melissa Haendel, Christopher Chute, Harold Lehmann, and Richard Moffitt (on behalf of the N3C Consortium) on the publication of Harmonizing units and values of quantitative data elements in a very large nationally pooled electronic health record (EHR) dataset in JAMIA.

Research and Applications

Harmonizing units and values of quantitative data elements in a very large nationally pooled electronic health record (EHR) dataset


Yale eHealth Technology, Denver, Colorado, USA; Department of Biomedical Informatics, Stony Brook University, Stony Brook, New York, USA; Division of Informatics and Data Science, Department of Pediatrics, University of Colorado School of Medicine, University of Colorado, Aurora, Colorado, USA; University of Minnesota, Minneapolis, Minnesota, USA; Department of Medicine, North Carolina Translational and Clinical Sciences Institute, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA; School of Medicine, Section of Biomedical Informatics and Data Science, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA; Department of Medicine, Johns Hopkins, Baltimore, Maryland, USA; Center for Health Informatics, University of Colorado, Aurora, Colorado, USA; and School of Medicine, Public Health, and Nursing, Johns Hopkins University, Baltimore, Maryland, USA.

Corresponding Author: Richard A. Moffitt, PhD, Department of Biomedical Informatics, Stony Brook University, MAMIT LT 666E, Stony Brook, NY 11794, USA; richard.moffitt@stonybrook.edu

ABSTRACT

Objective: The goals of this study were to harmonize data from electronic health records (EHRs) into common units, and units that were missing.

Methods: We created a cohort of patients using the nationwide COVID Cohort Collaborative (N3C) database of COVID-19 patient records and 19,000 unique measurement concepts in the Observational Medical Outcome Partnerships (OMOP) common data model (CDM) format from 50 data partners. We grouped conceptually similar OMOP concepts together for 52 variables relevant to COVID-19 research, and developed a unit-harmonization pipeline that included (1) selecting a canonical unit for each measurement variable, (2) deriving a formula for conversion, (3) obtaining critical review of each formula, (4) applying the formula to convert data values in each unit into the target canonical unit, and (5) removing any harmonized values that fall outside of acceptable value ranges for the variable. For data with missing units for all the values within a lab test for a data partner, we computed means of pooled values of all data partners, using the Kirkcudbright-Grieve test.

Results: Of the concepts without missing values, we harmonized 88.1% of the values, and imputed units for 78.2% of records where units were absent (14% of contributions’ records lacked units).

Discussion: The harmonization and inference methods developed herein can serve as a resource for initiatives aiming to extract insight from heterogeneous EHR collections. Unique properties of centralized data are harnessed to enable unit inference.

@OHDSI www.ohdsi.org #JoinTheJourney
OHDSI Shoutouts!

Congratulations to the team of Kristina Bardenheuer, Michel Van Speybroeck, Clare Hague, Enkeleida Nikai, and Martin Price on the publication of Haematology Outcomes Network in Europe (HONEUR) – a collaborative, interdisciplinary platform to harness the potential of Real-World Data in hematology in the European Journal of Haematology.

Original Article

Haematology Outcomes Network in Europe (HONEUR) – a collaborative, interdisciplinary platform to harness the potential of Real-World Data in hematology

Kristina Bardenheuer, Michel Van Speybroeck, Clare Hague, Enkeleida Nikai, Martin Price

First published: 23 April 2022 | https://doi.org/10.1111/ejh.13780

This article has been accepted for publication and undergone full peer review but has not been through the copyediting, typesetting, pagination and proofreading process, which may lead to differences between this version and the Version of Record. Please cite this article as doi: 10.1111/ejh.13780.

Abstract

Introduction

There remains a need to optimize treatments and improve outcomes among patients with hematologic malignancies. The timely synthesis and analysis of real-world data could play a key role.
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

<table>
<thead>
<tr>
<th>Date</th>
<th>Time (ET)</th>
<th>Meeting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>12 pm</td>
<td>Common Data Model Vocabulary Subgroup</td>
</tr>
<tr>
<td>Tuesday</td>
<td>3 pm</td>
<td>OMOP CDM Oncology Outreach/Research Subgroup</td>
</tr>
<tr>
<td>Wednesday</td>
<td>10 am</td>
<td>FHIR and OMOP Digital Quality Measurements Subgroup (ZOOM)</td>
</tr>
<tr>
<td>Wednesday</td>
<td>12 pm</td>
<td>Latin America</td>
</tr>
<tr>
<td>Thursday</td>
<td>12 pm</td>
<td>FHIR and OMOP Oncology Subgroup</td>
</tr>
<tr>
<td>Thursday</td>
<td>1 pm</td>
<td>OMOP CDM Oncology Vocabulary/Development Subgroup</td>
</tr>
<tr>
<td>Thursday</td>
<td>6 pm</td>
<td>FHIR and OMOP Terminologies Subgroup (ZOOM)</td>
</tr>
<tr>
<td>Friday</td>
<td>9 am</td>
<td>GIS – Geographic Information System Development</td>
</tr>
<tr>
<td>Friday</td>
<td>10:30 am</td>
<td>Clinical Trials</td>
</tr>
<tr>
<td>Tuesday</td>
<td>10 am</td>
<td>Common Data Model</td>
</tr>
</tbody>
</table>

[www.ohdsi.org/upcoming-working-group-calls](http://www.ohdsi.org/upcoming-working-group-calls)
Get Access To Different Teams/WGs/Chapters

Welcome to OHDSI!

The Observational Health Data Sciences and Informatics (OHDSI) 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.

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
- Eye care 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

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
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)
   - ATLAS
   - Clinical Trials
   - Common Data Model
   - Data Quality Dashboard Development
   - Early-stage Researchers
   - Education Work Group
   - Eyecare and Vision Research
   - PHR and OMDP
   - 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 DevCon 2022 Welcomes & Mentors New Contributors To Our Open-Source Environment

The Open-Source Community hosted the first Dev-Con on Friday, April 22, in a way of accepting and welcoming 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 Kheron Contributor Cohort, which will help onboard and mentor open-source developers in the community. If you are interested in joining the cohort, please fill out the application.

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

State Of The Community Presentation

State of the open-source ecosystem: number of contributors across multiple OHDSI projects as a cohort

Panel: Putting The Pieces Together

Panel discussion围绕着“Putting The Pieces Together.” The panelists included OHDSI’s Lee Evans (Broads), Microsoft’s Cory Stevenson (OHDSI on Azure), AWS’s James Wiggins (OHDSI on AWS), and Google’s Vivian Neffey (OHDSI on Google Cloud).

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: AVL (Anthony Soma), MADES Introduction (Adam Black)
8:30 am: WEFIT (Anthony Soma), Cohort/Diagnostics (James Gilbert)
9 am: WhiteHats/Robots in a Hat (Maxim Molinar), Patient-Level Prediction (Jenna Repe)
9:30 am: Data Quality Dashboard (Clair Bickler), Cyclops (Marc Buchard)

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 Martin Schuemie.

www.ohdssi.org/devcon2022
OHDSI Dev Con 2022 Welcomes & Mentors New Contributors To Our Open-Source Environment

The Open-Source Community hosted the first DevCon 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 Khronon Contributor Cohort, which will help onboard and mentor open-source developers in the community. If you are interested in joining the cohort, please fill out the application.

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

State Of The Community Presentation
State of the Open Source Environment: contributors across multiple OHDSI projects as a cohort

Panel: Putting The Pieces Together
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 listed below the agenda.

8 am: ATLAS (Anthony Sema); HADES Introduction (Adam Black)
9 am: WhiteRabbit/Hipster in a Hat (Maxim Molina); Patient-Level Prediction (Jenna Reps)
9:30 am: Data Quality Dashboard (Clair Blacketer); Cyclops (Mars 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 Schuemie.

The event closed with an industry panel discussion around the theme of “Putting The Pieces Together.” The panelists included OHDSI’s Lee Evans (Broadside), Microsoft’s Cory Stevenson (OHDSI on Azure), AWS’s James Wiggins (OHDSI on AWS), and Google’s Vivian Nellesley (OHDSI on Google Cloud).

Click Here To Apply For The 2022-23 Khronon Contributor Cohort
Join The Open-Source Community Workgroup in MS Teams

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

Please provide a valid email address. Change settings.

Name *
Shorter name

Describe your interest and/or experience with OHDSI open-source software.
Shorter text

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

Please provide your github username.
Shorter text

Are you able to commit 200 hrs (~5 hours per week) over the next year? *

Yes
No

Provide your resume/CV *

Add file
 Welco

The Observational Health Data Sciences and Informatics (or OHDSI) program is a multi-collaborative initiative to bring together large-scale data resources and make them 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.
OHDSI Sponsorship

Support The Journey
OHDSI Sponsorship Helps Provide A Foundation For Our Global Research Efforts

The OHDSI community is comprised of a global team of volunteers who collaborate together using open-source tools and share best practices to support our shared mission of generating real-world evidence that promotes better health decisions and better care. 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 a sponsorship program.

Check out our OHDSI sponsors page here.

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.

Below the sponsorship level information is a section about how your sponsorship impacts our community. To learn more about OHDSI’s activities, achievements and many other aspects of our global community, please search our webpage or check out our 2021 Annual Report: Our Journey.

Sponsorship Levels

GOLD

- Donation level: US $50K/year
- Your logo (max size: 460x180) will be placed on our OHDSI Sponsors page with link to your home page
- Logo placed in top section under Gold Level Sponsors heading
- Logo placed in alphabetical order
- Logo placed in a two-column row
- Use of OHDSI Gold Sponsor logo on your site
- Joint press release with OHDSI
- Annual meeting with OHDSI leadership to learn about current and future initiatives, and participate in an OHDSI sponsor question & answer session
- Weekly logo placement on the side of OHDSI community call (average >150 listeners per week)
- Logo placement on monthly "Thank You Sponsors" slide during OHDSI community call
- Sponsor Spotlight feature (3x4 with a member of your organization) placed on website and newsletter
- Monthly recognition on OHDSI Twitter (200+ followers) and LinkedIn (510K+) pages
- Inclusion in "Thank You Sponsors" graphic in all OHDSI monthly newsletters (400+ on mailing list)
- Listing in all OHDSI annual reports: Our Journey
- Recognition at all OHDSI in-person events

OHDSI.org/sponsorship

SILVER

- Donation level: US $15K/year
- Your logo (max size: 225x115) will be placed on our OHDSI Sponsors page with link to your home page
- Logo placed in middle section under Silver Level Sponsors heading
- Logo placed in alphabetical order
- Logo placed in a three-column row
- Use of OHDSI Silver Sponsor logo on your site
- Quote for your press release
- Annual meeting with OHDSI leadership to learn about current and future initiatives, and participate in an OHDSI sponsor question & answer session
- Logo placement on monthly "Thank You Sponsors" slide during OHDSI community call
- Sponsor Spotlight feature (3x4 with a member of your organization) placed on website and newsletter
- Annual recognition on OHDSI Twitter (200+ followers) and LinkedIn (510K+) pages
- Inclusion in "Thank You Sponsors" graphic in all OHDSI monthly newsletters (400+ on mailing list)
- Listing in all OHDSI annual reports: Our Journey
- Recognition at all OHDSI in-person events

BRONZE

- Donation level: US $5K/year
- Your logo (max size: 160x70) will be placed on our OHDSI Sponsors page with link to your home page
- Logo placed in bottom section under Bronze Sponsors heading
- Logo placed in alphabetical order
- Logo placed in a four-column row
- Use of OHDSI Bronze Sponsor logo on your site
- Logo placement on monthly "Thank You Sponsors" slide during OHDSI community call
- Inclusion in "Thank You Sponsors" graphic in all OHDSI monthly newsletters (400+ on mailing list)
- Listing in all OHDSI annual reports: Our Journey
- Recognition at all OHDSI in-person events

Why Should I Sponsor OHDSI?

The OHDSI Central Coordinating Center (OHCC) is funded by the National Institutes of Health (NIH). The OHCC provides support for the OHDSI open-source community and the community’s mission to improve health by empowering a community to collaboratively generate the evidence that promotes better health decisions and better care. OHDSI collaborates in many aspects of the journey from data to evidence, including open community data standards, open-source software development, open methodological research, and open network clinical research.

The OHDSI central coordinating center facilitates these collaborations by providing a central shared infrastructure and coordinating community activities that allow individuals from diverse backgrounds, disciplinary perspectives, stakeholder representation, and geographies to come together for a common cause. The OHDSI central coordinating center is responsible for the maintenance and release of the OHDSI standardized vocabularies, an integrated biomedical ontology and knowledge resource that is made public and has been used extensively by the global research community.

What Does The OHDSI Coordinating Center Do, And How Does Your Sponsorship Impact OHDSI’s Future? (presentation by George Hripcevski)
# APAC Community Calls

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 21</td>
<td>APAC Study Quarterly Updates</td>
</tr>
<tr>
<td>May 5</td>
<td>Cohort diagnostic tool</td>
</tr>
<tr>
<td>May 19</td>
<td>Mini-tutorials #1</td>
</tr>
<tr>
<td>June 2</td>
<td>Mini-tutorials #2</td>
</tr>
<tr>
<td>June 16</td>
<td>Chapter Mid-year Updates</td>
</tr>
<tr>
<td>June 30</td>
<td>EU Symposium Recap</td>
</tr>
<tr>
<td>July 14</td>
<td>APAC Study Quarterly Updates Part I</td>
</tr>
<tr>
<td>July 28</td>
<td>APAC Study Quarterly Updates Part II</td>
</tr>
</tbody>
</table>

[ohdsi.org/apac]
## APAC Community Calls

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 21</td>
<td>APAC Study Quarterly Updates</td>
</tr>
<tr>
<td>May 5</td>
<td>Cohort diagnostic tool</td>
</tr>
<tr>
<td>May 19</td>
<td>Mini-tutorials #1</td>
</tr>
<tr>
<td>June 2</td>
<td>Mini-tutorials #2</td>
</tr>
<tr>
<td>June 16</td>
<td>Chapter Mid-year Updates</td>
</tr>
<tr>
<td>June 30</td>
<td>EU Symposium Recap</td>
</tr>
<tr>
<td>July 14</td>
<td>APAC Study Quarterly Updates Part I</td>
</tr>
<tr>
<td>July 28</td>
<td>APAC Study Quarterly Updates Part II</td>
</tr>
</tbody>
</table>

[ohdsi.org/apac]
Registration is OPEN for #OHDSI2022!

The 2022 OHDSI Symposium will be held Oct. 14-16 at the Bethesda North Marriott Hotel & Conference Center.
The OHDSI Journey: Where Are We Going?
Patrick Ryan

OMOP Common Data Model and Vocabulary
Clair Blacketer

Creating Cohort Definitions
Asieh Golozar

Phenotype Evaluations
Gowtham Rao

Characterization
Kristin Kostka

Estimation
Martijn Schuemie

Prediction
Jenna Reps

ETL – A Source Database Into OMOP CDM
Melanie Philofsky

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

www.ohdsi-europe.org/symposium-2022
Peter Rijnbeek’s team at the Erasmus Medical Center is seeking multiple **R Programmers** to join the team.

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.
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.

**Deadline: May 23, 2022**
Next CBER Best Seminar

CBER BEST Seminar Series - Addressing Selection and Confounding Bias in Test-Negative Study Designs for Flu and COVID-19 Monitoring

Description: The test-negative design (TND) has become a standard approach to evaluate vaccine effectiveness against the risk of acquiring infectious diseases such as Influenza, Rotavirus, Dengue fever and more recently COVID-19 in real world settings. Despite the TND’s potential to reduce unobserved differences in healthcare seeking behavior (HSB) between vaccinated and unvaccinated subjects, substantial variability in unobserved HSB may remain among study participants. As latent HSB is likely also a strong predictor of selection into the TND sample, confounding bias of the vaccine’s causal effect by latent HSB may be induced by collider stratification bias resulting from the TND.

Speakers

Dr. Eric Tchetgen Tchetgen
Luddy Family President’s Distinguished Professor @ Wharton School of the University of Pennsylvania

Eric J. Tchetgen Tchetgen is the Luddy Family President’s Distinguished Professor at the Wharton School of the University of Pennsylvania. Professor Tchetgen Tchetgen comes to the University of Pennsylvania from Harvard University, where he has served since 2008 as Professor of Biostatistics and Epidemiologic Methods with joint appointments in the departments of Biostatistics and Epidemiology at the T.H. Chan School of Public Health. He researches infectious diseases, including HIV/AIDS, and the role of genetic and social factors in the patterns, causes, and effects of public health. Professor Tchetgen Tchetgen has received grants from the National Institutes of Health and the Centers for Disease Control. He completed his Ph.D. in Biostatistics at Harvard University in 2006 under the supervision of Professor James M. Robins. He received his B.S. in Electrical Engineering from Yale University in 1999.

Tomorrow, 11 am ET
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?
Eduard Korchmar

“Eddy” or “Edik”

From Kharkiv, Ukraine

- With OHDSI since 2017
- Special expertise: Drug and Procedure vocabularies
  SNOMED
  ICDO3
April 26 Community Call: Open Source Community

Panel Discussion Review
Lee Evans
Owner • LTS Computing LLC

State Of Open-Source Community
Paul Nagy
Associate Professor • Johns Hopkins School of Medicine

Keynote Summation
Martijn Schuemie
Research Fellow, Epidemiology Analytics • Janssen Research and Development

State Of Open-Source Community
Adam Black
Data Sciences • Odysseus Data Services