gdhub
Geneva Hub for
Global Digital Health

UNIVERSITÉ
DE GENÈVE

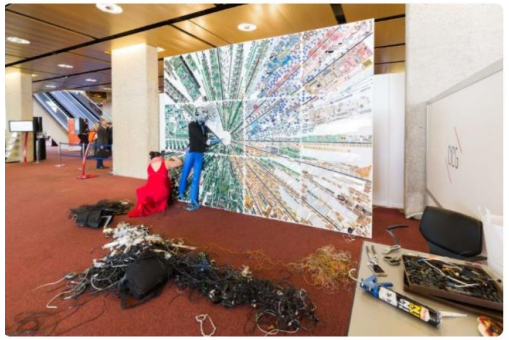
Global Health recommender systems

DR. MIRANA RANDRIAMBELONORO

Background

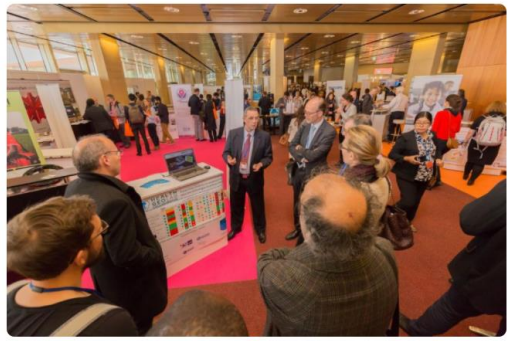
OpenWHO

PROGRAM

PHILIPS


AMWI
AMWI

BMJ
MERCK

Swiss TPH


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4
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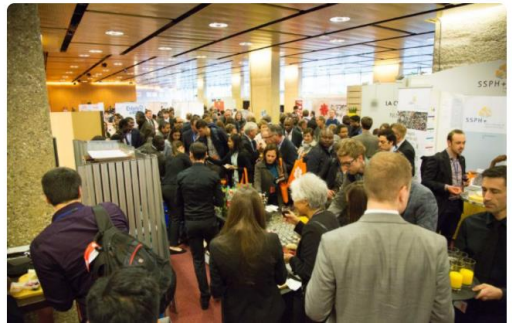
World Health Organization

Opening Ceremony
Oleg Salagay
HLG


3-5 MAY 2022, CICG, Geneva and Online

GENEVA HEALTH FORUM

THE FORUM THAT BRINGS TOGETHER
KEY ACTORS OF GLOBAL HEALTH

ABOUT CALL

1600
Participants

80
Countries

3
Days

120
Innovations

6 Reasons To Participate

Empower Yourself To Tackle The Most Important Global Health Challenges

Expand Your Network With A Large Number Of Researchers And Institutions Around The World

Learn About Innovative Solutions To Key Global Health Challenges

Promote Your Values, Activities, Solutions And Products

Promote Your Ideas To Key Global Health Stakeholders

Initiate Collaborations

Field Actors

Academics

Private Sectors

Policy-Makers

Information overload…

Plenary | Parallel | Experience Sharing | Workshops | Invited Sessions

	Track 1 Health system	Track 2 Health care	Track 3 Health actors	Track 4 Research and development	Track 5 Communication			Hosted meetings
08:00	ES1-1 La maintenance des dispositifs médicaux dans les pays en développement: avec ou sans équipements de contrôle, mesure et essai ?	ES1-2 Digital stetho-scope. Beyond listening	ES1-3 The Fortune in our Toilets Digital Health Breakthroughs & The Smart Sanitation Economy	ES1-4 Writing clinical prac-tice guidelines: could we be better and quicker?	ES1-5 Serious game, virtual reality, simulation: sharing experience	ES1-6 Ageing: living longer and healthier or just longer?	ES1-7 Education and support for future pandemics and health security	
08:15	Plenary 3 - Blockchain for Global Health							
09:00	Plenary 4 - Cybersecurity and the health system: What risks for patients?							
10:30	Coffee break, Visit exhibition, Poster, Photo exhibitions							
11:00	WS01 Diabetes and E-Health solutions in resource-limited settings: gadgets or real opportunities for quality care?	WS02 What digital tools to develop chronic wound care in resource-limited countries?	WS03 Define the specifications to carry out a diagnostic tool to diagnose the main gynecological pathologies in one day at an affordable price in a district hospital in Africa	WS04 Noma, A Rare Tropical Dis-ease in the Digital Age - Old Difficulties, New Tools?	WS05 Making periodic protection accessible in resource-limited settings: a public health challenge	WS06 Learn how to use big data: What chal-lenges, what tools?	WS07 Mental health: Do digital tools have an interest?	WS08 Feltcher and health worker: Is digital changing their job?	WS09 Cyberattack and hospital: what are the issues?	WS10 Digital health and integra-tion. About the example of HIV	WS11 Health promotion in digital times	WS12 Are we ready for the next emerging pan-demic: Oppor-tunity and challenges in the digital age
12:30	Lunch break, Visit exhibition, Poster, Photo exhibitions				LS03 Supply Chain and Delivery Systems: How can stakeholders collectively address this global health challenge? Merck		LS04 Information Technology as an innovative approach to address Non-Communicable Disease Health Promotion Administration, Ministry of Health and Welfare, Taiwan	
14:00	Plenary 5 - Digital: What place will remain for the health professions?							14:00-18:00 Internships and job dating" with MSc Global Health (MScGH) students
15:30	Coffee break, Visit exhibition, Poster, Photo exhibitions							
16:00	PS3-1 Global health security – Towards multisectoral collaborations to confront the increasing threat of vector-borne diseases	PS3-2 Technology for maternal, newborn and child health: Can we rely on it for the future?	PS3-3 Increasing fairness and impact of research partnerships	PS3-4 The "Where" of Universal Health Coverage (UHC)	PS3-5 Serious game, virtual reality, simulation: disruptive tools for training, sensitization and care			16:00-17:30 Participatory Disease monitoring of Influen-za-like Illness: A side-event organized by the Influenzanet consortium
17:30	Coffee break, Visit exhibition, Poster, Photo exhibitions							
18:00-21:00	SE1 Digital health, eHealth, mHealth: A breakthrough for public health or creating new dependency? A criti-cal look at the current hype Organ-ised Medicus Mundi	SE2 « Comment innover en santé globale ? Le défi de la solidarité internationale » organised by La Cité de la Solidarité Internationale	SE3 Russia and global health	SE4 Repenser l'action publique en matière de santé en Afrique organisé par le Master en études africaines et le Master in Global Health de l'Université de Genève	SE5 NCCR: Precision Epidemic Forecasting Organised by the Institute of Global Health	SE6 Precision Epidemic Forecasting, an NCCR project		17:30-18:00 A Swedish initiative for Global Health Transfor-mation - The Swedish Institute for Global Health Transformation

Pages to follow based on your activity

World Health Organization
4,230,100 followers
Follow

World Economic Forum
3,627,980 followers
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Centre de carrière – UNIGE
1,861 followers
Follow

Geneva Centre of Humanitarian...
11,648 followers
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People in the Hospital & Health Care industry you may know — See all

Fazilah Shaik Allau...
Senior Deputy Director, Planning Division at...
1 mutual connection
Connect

Marie - Louise Sieber
4-lingual Digital Health PM/BA | Tech Believer |..
Université de Genève
Connect

Joanna Gariani
Radiologist
HUG - Hopitaux Universitaires de...
Connect

Géraldine Monay
Chargée de communication à...
HUG - Hopitaux Universitaires de...
Connect

Because you have Python (Programming Language) on your LinkedIn profile

COURSE
Python Projects
By: Barron Stone

COURSE
Python Object-Oriented Programming
By: Joe Marini

COURSE
8 Things You Must Know in Python
By: Jonathan Fernandes

COURSE
Python Quick Start
By: Lavanya Vijayan and Madecraft

COURSE
Python Parallel Programming
By: Olivia Chiu

Learn top skills for people in your industry

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Ursula von der Leyen
President of the European Commission
+ Follow

EPFL Startup
Company • Higher Education
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View all recommendations →

Online events for you — See all

FREE CYBERSECURITY TRAINING
Mon, Nov 15 - Fri, Dec 31
11,305 attendees
View

Tech Talk: ML OPs - Machine Learning & DevOPs
Tomorrow, 11:00 AM
29 attendees
View

5th International Conference on Robotics and Artificial...
Wed, Nov 17 - Thu, Nov 18
194 attendees
View

Artificial Intelligence (CAIP®) Accredited Training for IT...
Sun, Nov 28 - Thu, Dec 2
1,501 attendees
View

Solar & Storage Live | 23 – 25 November 2021
Tue, Nov 23 - Thu, Nov 25
Dr. Freda Owusu and 4,701 other attendees
View

BIOINFORMATICS | 10 Day Technical Certificate Online...
Thu, Dec 2 - Sat, Dec 11
1,590 attendees
View

Recommended newsletters for you — See all

Published monthly
Emotional Intelligence
Daniel Goleman shares matters

Published weekly
Mindset Matters
A weekly dose of tools, tips and

Published biweekly
Gates Notes
The blog of Bill Gates

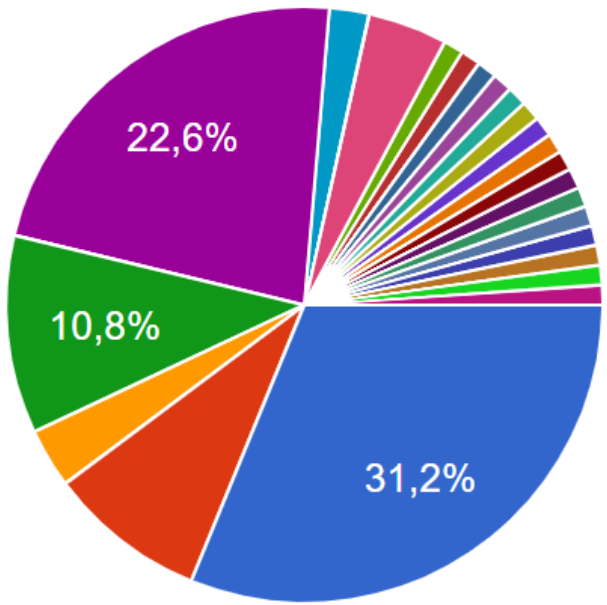
Identify needs and requirements for designing and developing a personalized recommender system to facilitate networking and collaboration in global health.

Questionnaire results

Participants profiles

In which of these categories do you fit?

93 réponses



- Academics / Researchers
- Industry / Private sector
- Policy makers
- International organizations
- NGOs
- Funders / Sponsors
- Students
- Student, individual

1/3

Participants needs

Share
Promote

Learn
Be informed of

Collaborate
Networking

Be part of

Share
Promote

Innovation

Global health issues

Best practices

Insights

Evidence-based experience

knowledge

Specific topic

Learn

Be informed of

Important issues

New development

From expert in …

New initiatives / collaborations

State of the art

Actors in specific field

Hands-on experience

Research activities

Last projects going on

Getting new inspirations

Collaborate

Networking

Meeting new people, stakeholders,…

Identify projects on which to embark

Identify new funding opportunities

Start new projects

Exhange informations / knowledge

Collaborate with developing countries

Exhange views on my reseach

Be part of community / initiatives / projects /…

Specific collaboration needs

Initiate

Projects, studies, trials,…

On specific topics

With other organization in the field

With LMICs, researchers, health prof.

Create

Communities of practice

On specific topics

With contributions from multiple organizations

Target

Collaboration for specific needs

Eg: hospital here with a lot of patients with tropical disease <-> students in LMICs with skills on tropical diseases

Eg: some people have ideas and skills but no resources

Information issues

Yes, it was hard to find the right information

Too many info

Hard to navigate

Info structure not clear

Too much time to get to the right info

Too many activities/events proposed

Need better way to connect to other participants

Too many posters, not well advertised, low attendance

Suggestion of improvements

Share

Contact details
Affiliations
Bio
Interests
Expertise
Experience
Projects

Start profile matching early before GHF

Facilitate speed network

In-person
online
10mn tchat
« random» speed activity
Lighter program and more time for social interaction

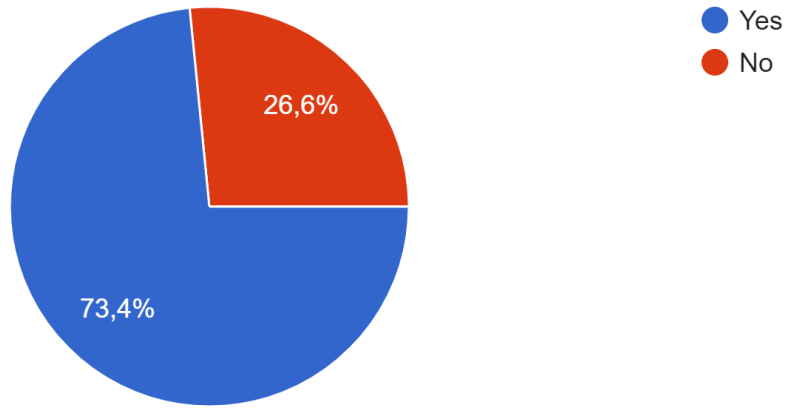
Organize special sessions

By themes
By region

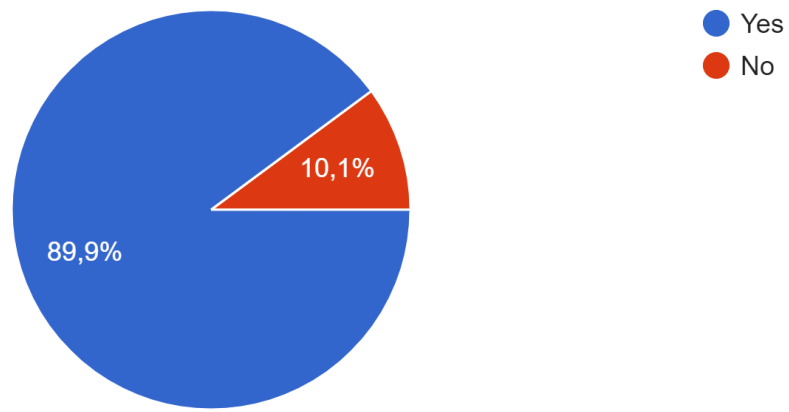
Informal events
Networking nights
Gathertown
Regional think tank

Recommender systems

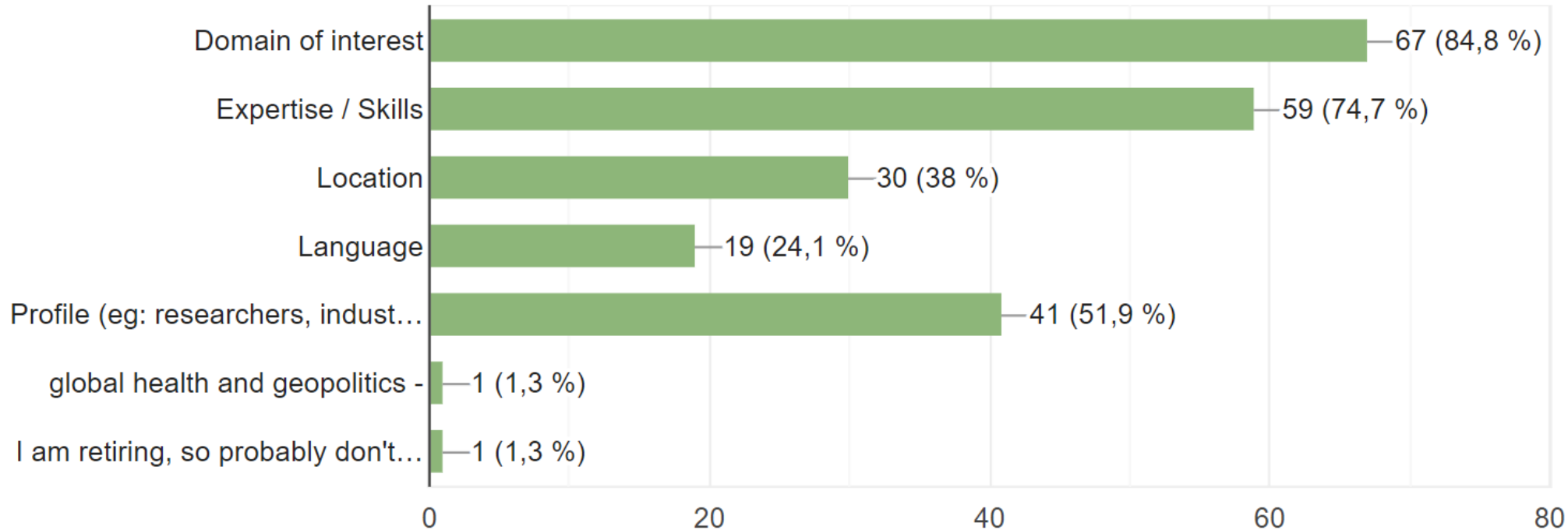
Would you like to see information filtered for you based on your interests in the GHF platform?



If the GHF were to implement a recommender system that would suggest people for you to network with and events for you to attend based on ...r interests and profile, would you want to use it?



Would you like to be connected to other participants based on their...



Networking platform

Profile

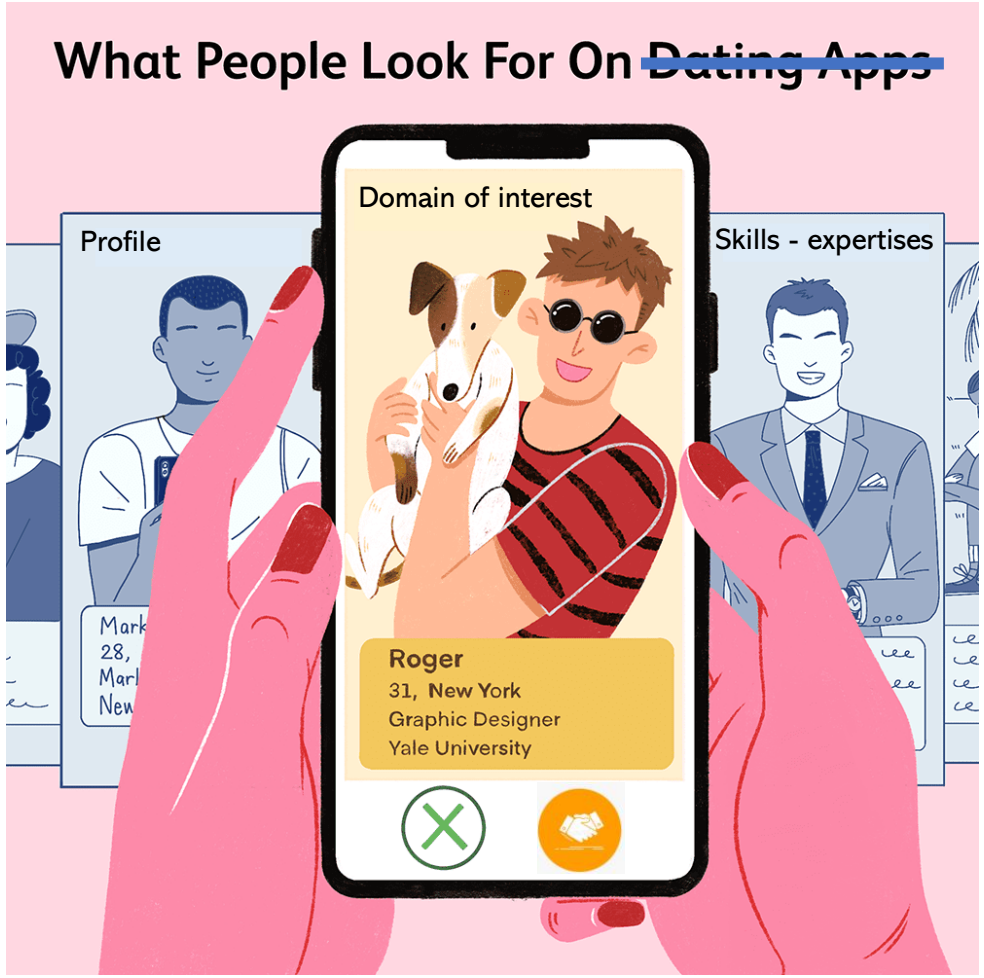
Interests

Research projects

Innovation

Location

New areas to explore



Recommender systems

Specific field / topic (eg. Maternal health)

Area of activity

Organization, affiliation

Job openings

Collaboration openings

Value proposition

Main questions (FAQs)

FAQs

Who are the people working in the field of…?

Who are the people who has competencies/expertise in…?

Who are the people who has experience in…?

Who is open to collaboration?

Who are the people working on … in my region?

Who are the people I can collaborate with to create/initiate a project on …?

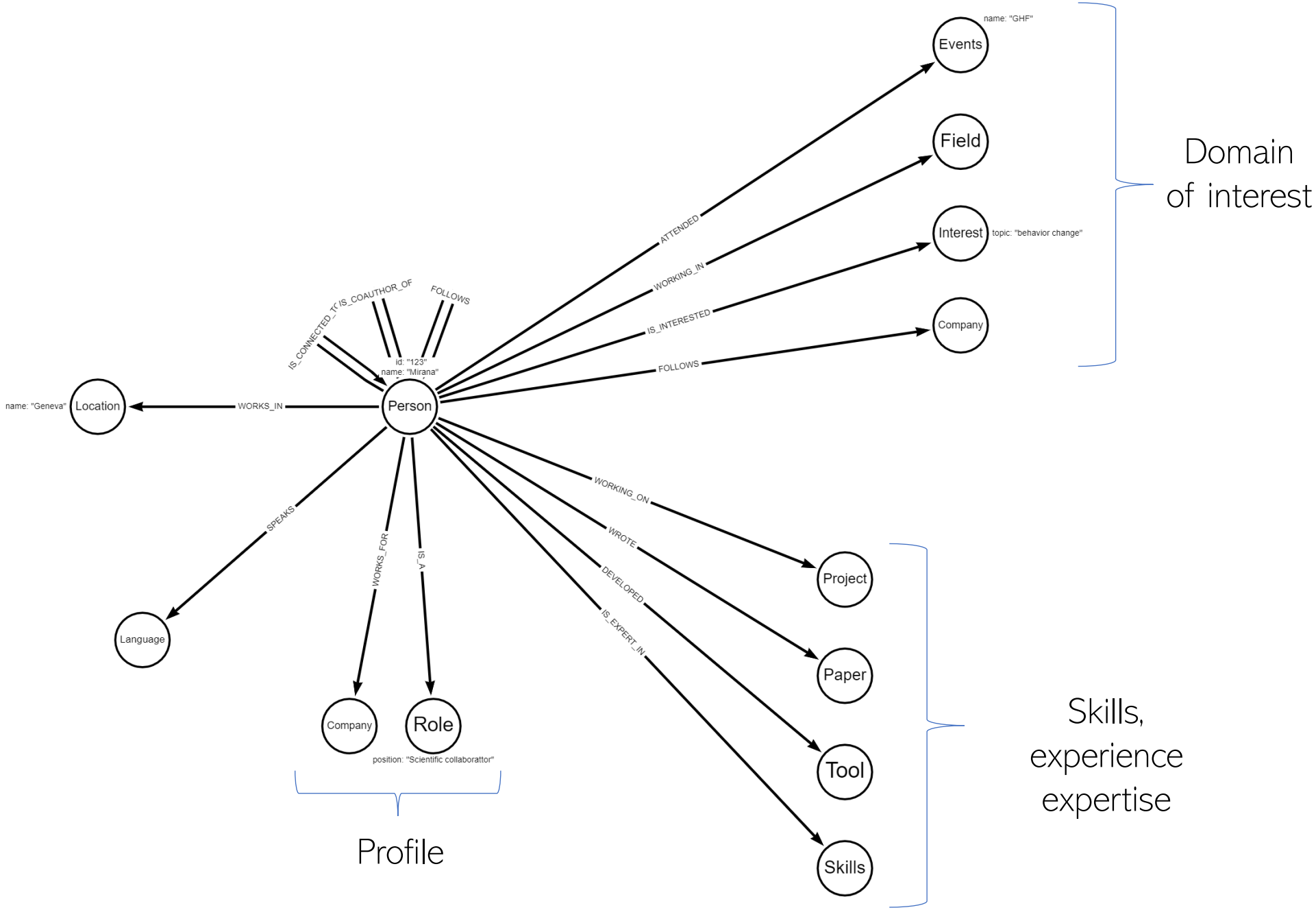
Who are the people I can discuss with about this topic?

Who are the people I can talk to, to promote or share about…?

Who are the people who can help me achieving [goals]…?

What are the new developments in… and who are the main actors?

People data modeling


name: "GHF"
Events
Field
Interest
topic: "behavior change"
Company
ATTENDED
WORKING_IN
IS_INTERESTED
FOLLOWS
Domain
of interest
IS_CONNECTED_TO
IS_COAUTHOR_OF
FOLLOWS
id: "123"
name: "Mirana"
name: "Geneva"
Location
WORKS_IN
Person
SPEAKS
WORKS_FOR
IS_A
WORKING_ON
WROTE
DEVELOPED
IS_EXPERT_IN
Language
Company
Role
position: "Scientific collaborattor"
Project
Paper
Tool
Skills
Profile
Skills,
experience
expertise

Concept

GDH2ack
Global Digital Health Hackathon
November 26, 2021
SDG Solution Space
gdhub
1st Prize
AGORA & GLOBAL HEALTH RECOMMENDER SYSTEM
1000 CHF
GDHACK
gdhub

Personalized agenda

Profile

Connect

Inspire

Participate

Get inspired

Onboarding

Demographic data

- Profile category
- Affiliation
- Role / job title
- Location
- Language

Build your introduction

My name is ……{name}…… I have a background and experience in ……{skills}…….. My research area focus on ……{research areal}…….. I am particularly interested in {domain of interestl} …….. I am looking for ……{profile categoryl}…… to ……{nature of collaborationl}……

Enriching user profile

CV

Projects

Publications

Google scholar
Researchgate
IEEE profile
Pubmed
ORCID

Experience

Linkedin

Previous events attended

Interaction with the platform

Figure 5. Screenshots from the Web app showing doctor recommendation and content analysis functions.

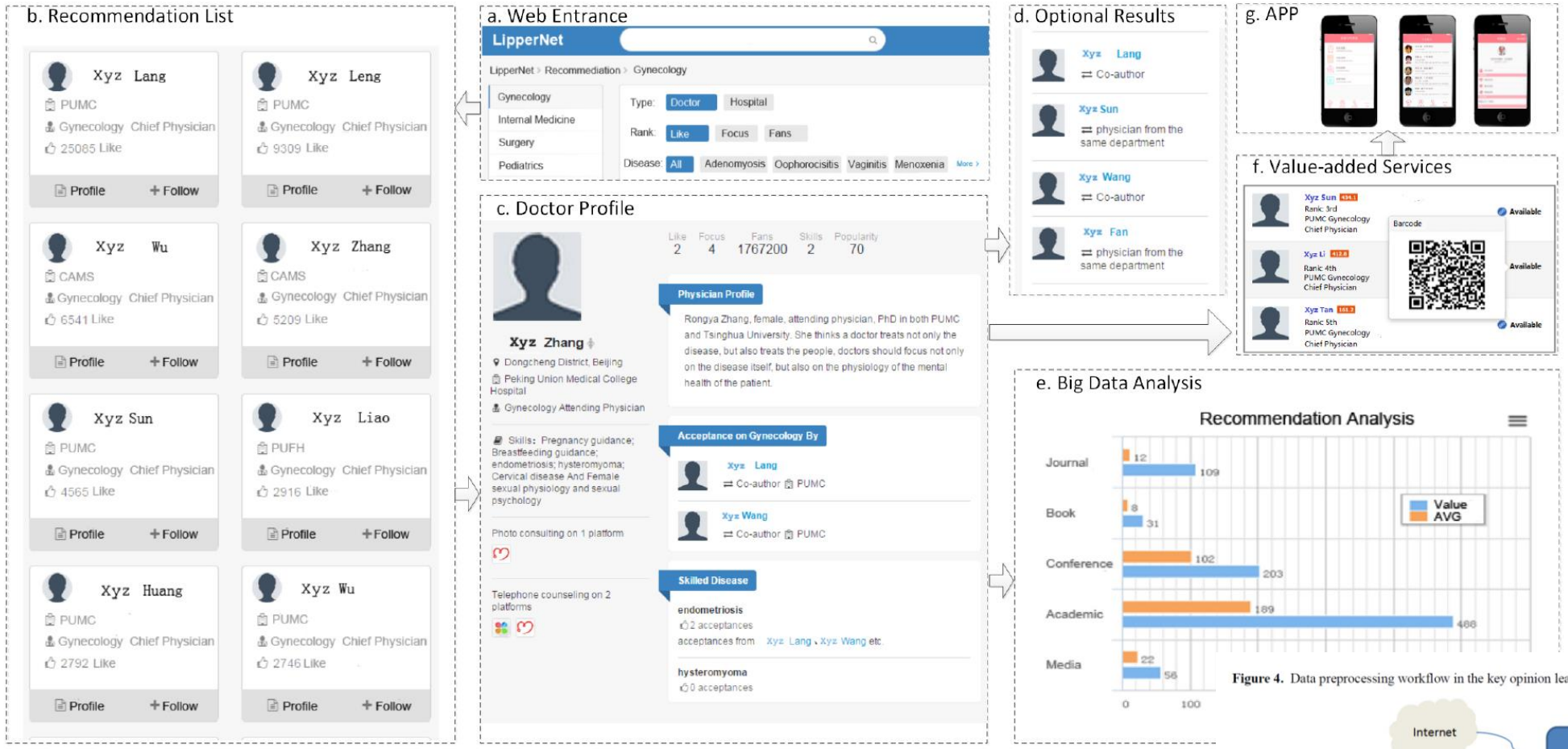
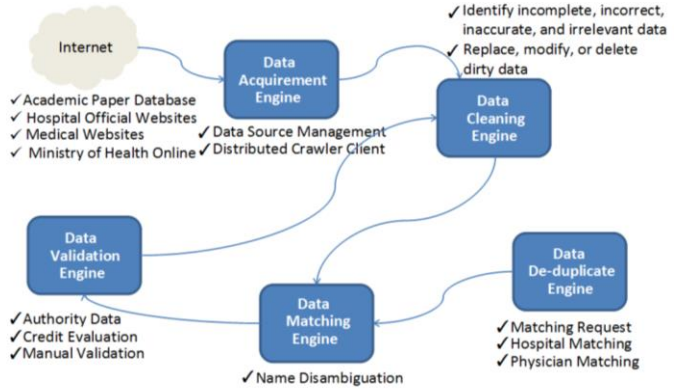


Figure 4. Data preprocessing workflow in the key opinion leader identification system.



Guo, L., Jin, B., Yao, C., Yang, H., Huang, D., & Wang, F. (2016). Which Doctor to Trust: A Recommender System for Identifying the Right Doctors. Journal of medical Internet research, 18(7), e186. https://doi.org/10.2196/jmir.6015

Needs: Before the GHF

Connect

People
Communities

Get inspired

Projects
Publications

Inspire

Share
Knowledge
Projects
Publications

Needs: During the GHF

Connect	Participate	Get inspired	Inspire
People Communities	Talks Workshops Speed networking	Showcases Demos Exhibitions Projects Publications	Share Knowledge Projects Publications

Needs: After the GHF

Connect

People
Communities

Initiate

Collaboration

Get inspired + Inspire

Informal events
Networking nights
Gathertown

Share
Knowledge

Space and Global Health Recommender systems

Needs for collaboration

Were you expecting /or would you like any form of collaboration between the members of the working group? If yes, what type of collaboration?

Value of a recommender system (RS)

How do you think a RS could be used to facilitate networking and collaboration in the space and global health community?

Are there specific features you would like to see included in such a system?

Match-making factors

How would you like to be connected with other members?
(ex: by domain of interest, skills, …)

Long-term collaboration

In your opinion, how can we foster and sustain collaboration in Space and Global Health in general?

Based on our discussion today, we will send you shortly a questionnaire to fill.

Thank you