

# Knowledge Graph Construction Workshop

Full Day Workshop co-located with ESWC 2021  
6th June - Online

# 2 years ago... 1st edition ESWC 2019



# 2nd Edition of the KGC Workshop



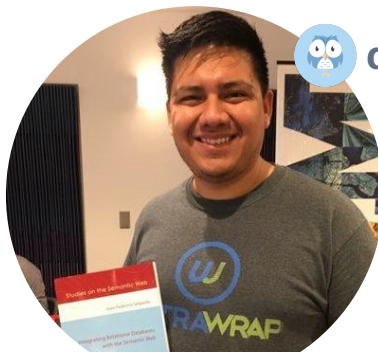
Anastasia Dimou



David Chaves-Fraga



Pieter Heyvaert



Juan Sequeda



Freddy Priyatna

# 2nd edition of the KGC Workshop

With an special focus on **user's role** and **mapping challenges**

- 16 papers submitted (1 withdraw, 2 rejected, 13 accepted):
  - 5 research papers
  - 4 experience papers
  - 3 position papers
  - 1 demo paper
- Open-Review process:
  - 42 distinguish researchers part of the Program Committee
  - All papers received between 3 and 4 reviews + meta-review
    - Besides some exceptions, each paper was reviewed by  
1 professor, 1 senior researcher, 1 junior researcher, 1 reviewer from industry

# Communication

- Slack channel: #workshop-kgc
- Twitter: Follow [@kgc\\_workshop](#) and use [#KGCW2021](#)
- Breaks and beers at the end in Gather.town
- Zoom: ask questions, discuss... be active! (cameras are allowed 😊)

## Keynote and Panel

- 15:00 - 16:00: Keynote by Jesús Barrasa @ Neo4j:  
***“Knowledge graphs 2021: The great convergence”***
- 17:30 - 18:30: Panel on Machine Learning for KG construction:



Maria-Esther Vidal



Heiko Paulheim



Francesco Osborne



Ernesto Jiménez-Ruiz

# S1: Experiences in KG Construction (11:00-12:45)



*Experiences of Using WDumper to Create Topical Subsets from Wikidata.* **Seyed Amir Hosseini Beghaeiraveri**, Alasdair Gray, Fiona McNeill



*Knowledge Graph Construction with R2RML and RML: An ETL System-Based Overview.* **Julián Arenas-Guerrero**, Mario Scrocca, Ana Iglesias-Molina, Jhon Toledo, Luis Pozo-Gilo, Daniel Doña, Oscar Corcho, David Chaves-Fraga



*Knowledge Graph Lifecycle: Building and maintaining Knowledge Graphs.* **Umutcan Şimşek**, Kevin Angele, Elias Kärle, Juliette Opdenplatz, Dennis Sommer, Jürgen Umbrich, Dieter Fensel



*Collaborative-AI Knowledge Graph Generation: Taxonomization of IATE, the EU Terminology.* **Alena Vasilevich**, Michael Wetzel, Stelios Mathioulakis, Jochen Hummel



## S2: Mapping Languages Challenges (13:00-14:30)



*Introduction to the KG-Construction W3C Community Group. **David Chaves**, Anastasia Dimou*



*Mapping Spreadsheets to RDF: Supporting Excel in RML. **Markus Schröder**, Christian Jilek, Andreas Dengel*



*A ShExML perspective on mapping challenges: already solved ones, language modifications and future required actions. **Herminio García-González***



*Integrating nested data into knowledge graphs with RML fields. **Thomas Delva**, Dylan Van Assche, Pieter Heyvaert, Ben De Meester, Anastasia Dimou*



*Discussions on next steps with the CG & wrap up. **Anastasia Dimou**, David Chaves*

# S3: Keynote & Methodology users (14:45 - 16:45)



*Intro to the keynote speaker.* **Juan Sequeda**



*“Knowledge graphs 2021: The great convergence” - Keynote KGCW2021.* **Jesús Barrasa**



*Stratified Data Integration.* Fausto Giunchiglia, Alessio Zamboni, **Mayukh Bagchi**, Simone Bocca



*Everything for the users, nothing by the users: Lessons learnt from an heterogeneous data mapping languages user study.* **Herminio García-González**





## S4: Machine Learning for KGC (17:00-18:30)



*Open Drug Knowledge Graph.* Mark Mann, **Filip Ilievski**, Mohammad Rostami, Aastha Aastha, Basel Shbita



*Demo: Knowledge Graph-Based Housing Market Analysis.* Ziping Hu, Zepei Zhao, Mohammad Rostami, **Filip Ilievski**, Basel Shbita



*JenTab: A Toolkit for Semantic Table Annotations.* **Nora Abdelmageed**, Sirko Schindler



*Embedding-Assisted Entity Resolution for Knowledge Graphs.* Daniel Obraczka, **Jonathan Schuchart**, Erhard Rahm



Panel with ML experts on KG Construction.

**Heiko Paulheim, Ernesto Jiménez-Ruiz, Franceso Osborne, and Maria-Esther Vidal**