



# Pablo Sánchez Pérez

COMPUTER SCIENTIST · PHD IN COMPUTER SCIENCE AND TELECOMMUNICATIONS ENGINEERING.

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## Work experience

### Universidad Autónoma de Madrid

Madrid, Spain

POSTDOCTORAL RESEARCHER

July 2021 - Today

- Main task: research in recommender systems (especially in Point-Of-Interest recommendation) proposing and analyzing different models in the Information Retrieval Group at the Universidad Autónoma de Madrid.

### Universidad Autónoma de Madrid

Madrid, Spain

PREDOCTORAL RESEARCHER

July 2018 - July 2021

- Main task: use of contextual dimensions such as sequentiality and time in recommender systems (mainly in neighborhood-based algorithms).

### Universidad Autónoma de Madrid

Madrid, Spain

RESEARCHER INTERN IN THE INFORMATION RETRIEVAL GROUP

September 2016 - July 2017

- Research and development of different recommender systems while studying the master's degree.

### Universidad Autónoma de Madrid

Madrid, Spain

WEB PROGRAMMER AND DATABASE DESIGN AND MANAGEMENT

September 2015 - July 2016

- Development of the Escuela Politécnica Superior's website and database (faculty of the Universidad Autónoma de Madrid).

## Education

### Universidad Autónoma de Madrid

Madrid, Spain

PHD IN COMPUTER SCIENCE AND TELECOMMUNICATION ENGINEERING

October 2017 - July 2021

- Grade: Distinction Cum Laude in the thesis titled: **Exploring attributes, sequences, and time in Recommender Systems: From classical to Point-of-Interest recommendation.**

### Universidad Autónoma de Madrid

Madrid, Spain

MASTER IN RESEARCH AND INNOVATION IN INFORMATION AND TELECOMMUNICATION TECHNOLOGIES

September 2016 - July 2017

- Average grade: 9,05/10.
- High honours in the final Master's thesis titled: **Exploiting Subsequence Matching in Recommender Systems.**

### Universidad Autónoma de Madrid

Madrid, Spain

GRADE ON COMPUTER SCIENCE.

September 2011 - June 2016

- Average grade: 7,83/10.
- High honours in the final degree project titled: **Study And Applications of Algorithms and Data Structures in Recommender Systems.**

## Research activities

### RESEARCH AREAS

- Recommender Systems, Ranking Evaluation, Information Retrieval.

### PARTICIPATION IN RESEARCH PROJECTS

#### Project: Mas allá de la recomendación estática: equidad, interacción y transparencia

Universidad Autónoma de Madrid

RESEARCHER

July 2020 - May 2023

Participation in the project while finishing the thesis and in the postdoctoral phase defining new mechanisms to measure fairness in the recommendations and partially mitigate the possible injustices and biases that may exist in them.

#### Project: Recomendación en Medios Sociales: Contexto, Diversidad y Sesgo Algorítmico

Universidad Autónoma de Madrid

PREDOCTORAL RESEARCHER

July 2017 - December 2019

Participation in the project while conducting my PhD analyzing biases in recommender systems and defining new mechanisms to incorporate temporal and sequential influence in the recommendations. I also used contextual information to define new metrics to measure the performance of the algorithms in terms of relevance, sequential relevance and temporal novelty.

#### Project: MyStreetBook

Universidad Autónoma de Madrid

COLLABORATOR

March 2017 - July 2017

Algorithm design to generate personalized tourist routes for users of the MyStreetBook application.

### ATTENDANCE AND PAPERS PRESENTATION AT CONFERENCES

- |      |   |         |
|------|---|---------|
| 2019 | <b>Attendee and lecturer</b> , ACM Conference on Recommender Systems (RecSys 2019). 16 - 20 September 2019. | Denmark |
| 2018 | <b>Attendee and lecturer</b> , ACM Conference on Recommender Systems (RecSys 2018). 2 - 7 October 2018.     | Canada  |
| 2018 | <b>Attendee and lecturer</b> , Spanish Conference on Information Retrieval (CERI 2018). 25 - 27 June 2018.  | Spain   |
| 2018 | <b>Attendee and lecturer</b> , European Conference on Information Retrieval (ECIR 2018). 26 - 29 Mars 2018. | France  |

- 2022 **Web Chair**, 33rd ACM Conference on Hypertext and Social Media - HT' 2022.
- 2021 **PC member**, 3rd Workshop on Knowledge aware and Conversational Recommender Systems - KaRS 2021.
- 2021 **PC member**, ACM RecSys Workshop on Recommenders in Tourism - RecTour 2021.
- 2021 **PC member**, ACM Conference on Recommender Systems - RecSys 2021- . Reproducibility Track.
- 2020 **PC member**, ACM Conference on Recommender Systems - RecSys 2020 - . Reproducibility Track.
- 2019 **PC member**, 2nd Workshop on Knowledge aware and Conversational Recommender Systems - KaRS 2019.

Spain  
Netherlands  
Netherlands  
Netherlands  
Rio de Janeiro  
China

## REVIEWER IN JOURNALS

- Information Processing and Management.
- Information Technology & Tourism.
- International Journal of Data Science and Analytics.
- Geocarto International.
- User Modeling and User-Adapted Interaction.

## Publications

- Since 2016 I have published a total of **16** papers. All of them can be found in my Google Scholar web page. The code (in Java) to replicate the results of the articles is available in my Bitbucket profile: <https://bitbucket.org/PabloSanchezP/>.

## JOURNALS

**On the effects of aggregation strategies for different groups of users in venue recommendation**

Information Processing and  
Management

PABLO SÁNCHEZ AND ALEJANDRO BELLOGÍN. DOI: 10.1016/J.IPM.2021.102609.

2021

- JCR Impact factor 2020: 6.222. Q1: 21/162. Computer Science, Information Systems.

**Time and sequence awareness in similarity metrics for recommendation**

Information Processing and  
Management

PABLO SÁNCHEZ AND ALEJANDRO BELLOGÍN. DOI: 10.1016/J.IPM.2020.102228.

2020

- JCR Impact factor 2020: 6.222. Q1: 21/162. Computer Science, Information Systems.

**Applying reranking strategies to route recommendation using sequence-aware evaluation**

User Modeling and User-Adapted  
Interaction

PABLO SÁNCHEZ AND ALEJANDRO BELLOGÍN. DOI: 10.1007/S11257-020-09258-4.

2020

- JCR Impact factor 2020: 4.412. Q1: 5/23 Computer Science and Cybernetics.

**Building user profiles based on sequences for content and collaborative filtering**

Information Processing and  
Management

PABLO SÁNCHEZ AND ALEJANDRO BELLOGÍN. DOI: 10.1016/J.IPM.2018.10.003.

2019

- JCR Impact factor 2019: 4.787. Q1: 22/156. Computer Science, Information Systems.

**Collaborative filtering based on subsequence matching: A new approach**

Information Sciences

ALEJANDRO BELLOGÍN AND PABLO SÁNCHEZ. DOI: 10.1016/J.INS.2017.08.016.

2017

- JCR Impact factor 2017: 4.305. Q1: 12/148. Computer Science, Information Systems.

## CONFERENCES

**Discovering Related Users in Location-based Social Networks**

ACM Conference on User Modeling,  
Adaptation and Personalization  
(UMAP)

SERGIO TORRIJOS, ALEJANDRO BELLOGÍN AND PABLO SÁNCHEZ. DOI: 10.1145/3340631.3394882.

2020

- CORE 2020: rank B.
- GGS 2018: class 3, rating B.

**Attribute-based evaluation for recommender systems: incorporating user and item attributes in evaluation metrics**

ACM Conference on Recommender  
Systems (RecSys)

PABLO SÁNCHEZ AND ALEJANDRO BELLOGÍN. DOI: 10.1145/3298689.3347049.

2019

- CORE 2018: rank B.
- GGS 2018: class 2, rating A-.

**Exploiting contextual information for recommender systems oriented to tourism**

ACM Conference on Recommender  
Systems (RecSys)

PABLO SÁNCHEZ. DOI: 10.1145/3298689.3347062.

2019

- CORE 2018: rank B.
- GGS 2018: class 2, rating A-.

## Time-Aware Novelty Metrics for Recommender Systems

European Conference on  
Information Retrieval (ECIR)

PABLO SÁNCHEZ AND ALEJANDRO BELLOGÍN. DOI: 10.1007/978-3-319-76941-7\_27.

2018

- CORE 2018: [rank A](#).
- GGS 2018: [class 2, rating A-](#).

## Measuring anti-relevance: a study on when recommendation algorithms produce bad suggestions

ACM Conference on Recommender  
Systems (RecSys)

PABLO SÁNCHEZ AND ALEJANDRO BELLOGÍN. DOI: 10.1145/3240323.3240382.

2018

- CORE 2018: [rank B](#).
- GGS 2018: [class 2, rating A-](#).

## New approaches for evaluation: correctness and freshness: Extended abstract

Spanish Conference on Information  
Retrieval (CERI)

PABLO SÁNCHEZ, RUS M. MESAS AND ALEJANDRO BELLOGÍN. DOI: 10.1145/3230599.3230614.

2018

## Applying subsequence matching to collaborative filtering: Extended abstract

Spanish Conference on Information  
Retrieval (CERI)

ALEJANDRO BELLOGÍN AND PABLO SÁNCHEZ. DOI: 10.1145/3230599.3230605.

2018

## Studying the effect of data structures on the efficiency of collaborative filtering systems

Spanish Conference on Information  
Retrieval (CERI)

PABLO SÁNCHEZ, ALEJANDRO BELLOGÍN, AND IVÁN CANTADOR. DOI: 10.1145/2934732.2934747.

2016

## WORKSHOPS

## Challenges on evaluating venue recommendation approaches: Position paper

Workshop on Recommenders in  
Tourism (RecTour)

PABLO SÁNCHEZ AND ALEJANDRO BELLOGÍN. [LINK](#).

2018

## A novel approach for venue recommendation using cross-domain techniques

Workshop on Intelligent  
Recommender Systems by  
Knowledge Transfer & Learning  
(RecSysKTL)

PABLO SÁNCHEZ AND ALEJANDRO BELLOGÍN. [LINK](#).

2018

## Revisiting neighbourhood-based recommenders for temporal scenarios

Workshop on Temporal Reasoning  
in Recommender Systems  
(RecTemp)

PABLO SÁNCHEZ AND ALEJANDRO BELLOGÍN. [LINK](#).

2017

## Technical skills

<b>Programming languages</b>	Java (High level), Python, Bash, C, SQL (Medium level). Ease of learning any programming language.
<b>Software development</b>	Eclipse, Pycharm, NetBeans, Visual Studio, PostgreSQL, SQLServer.
<b>Operating Systems</b>	Microsoft Windows, GNU/Linux.
<b>Other software</b>	LaTeX, Microsoft Office, Libre Office.
<b>Other skills</b>	Responsability, Commitment, Empathy, Motivation to learn, Organized.

## Languages

<b>Spanish</b>	Native
<b>English</b>	Reading: High. Writing: Medium-High. Speaking: Medium-High. Certificate: First Certificate in English University of Cambridge.

## University Teaching

### Subject: Software Analysis and Design

Universidad Autónoma de Madrid

JAVA PROGRAMMING TEACHER IN THE COMPUTER SCIENCE GRADE AND IN THE COMPUTER SCIENCE AND MATHEMATICS GRADE

February - June

Main tasks: Teaching Java language and UML class diagrams. 2º Year of Grade on Computer Science/Grade on Computer Science and Mathematics. 3 academic courses (2019 - 2021).

### Subject: Operating Systems

Universidad Autónoma de Madrid

C PROGRAMMING TEACHER IN THE COMPUTER SCIENCE GRADE

February - June

Main tasks: Advanced C language teaching (process management, threading and signal communication). 2º Year of Grade on Computer Science. 1 academic course (2018).

## References

2021Alejandro Bellogín Kouki, Universidad Autónoma de Madrid, alejandro.bellogin@uam.esMadrid, Spain

2021Pablo Castells Azpilicueta, Universidad Autónoma de Madrid/Amazon, pablo.castells@uam.esMadrid, Spain