ALBERTO HIDEKI UEDA

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EDUCATION

Ph.D. Student in Computer Science	Aug 2017 - Present
Federal University of Minas Gerais (UFMG), Belo Horizonte, Brazil	Weighted Avg: 96.3%
Visiting Research Student at University of Glasgow, Scotland, UK	Mar 2020 - Sep 2020
M.S. in Computer Science	Aug 2015 - Jul 2017
Federal University of Minas Gerais (UFMG), Belo Horizonte, Brazil	Weighted Avg: 90.7%

B.S. in Computer Science

University of São Paulo (USP), São Paulo, Brazil

Thesis: Reputation in Computer Science on a per Subarea Basis

Feb 2006 - Dec 2012 Weighted Avg: 71.0%

RESEARCH AND TEACHING EXPERIENCE

Ph.D. Student

Aug 2017 - Present

- Explored the use of contextual language models, such as BERT and its variants, to rank biomedical documents in ad-hoc retrieval tasks.
- Investigated strategies to use structure-based information to estimate document relevance.
- Awarded an academic merit scholarship for successful academic performance.

M.S. Student Aug 2015 - Jul 2017

- Designed a novel reputation metric for academic rankings on a per subarea basis using a graph-based scientific index called P-score.
- Performed scientific impact evaluation of publications and research groups in Computer Science across different countries, on a subarea level.
- Third-place award at the WSDM Cup Rank Challenge 2016 (team UFMG/Latin) held by WSDM conference and Microsoft.

Technical Lead of Research Laboratory

Apr 2017 - Mar 2020

Laboratory for Treating Information (LATIN), Dept. of Computer Science, UFMG.

• Ensured that the resources and services provided are appropriate and up-to-date. Formulated budgets for the research directors, maintaining an functional laboratory infrastructure.

Teaching Assistant

Reviewed the course material with students, taught classes, and helped grading tests and assignments.

- Information Retrieval, under the supervision of Prof. Berthier Ribeiro-Neto and Prof. Nivio Ziviani.
 Feb 2016 - Jul 2016

SELECTED PUBLICATIONS

Structured Fine-Tuning of Contextual Embeddings for Effective Biomedical Retrieval

A. Ueda, R. Santos, C. Macdonald, I. Ounis. SIGIR. 2021.

University of Glasgow and UFMG at the TREC 2020 Precision Medicine Track

A. Ueda, R. Santos, C. Macdonald, I. Ounis. TREC. 2020.

Online Learning to Rank for Sequential Music Recommendation

B. Pereira, A. Ueda, G. Penha, R. Santos, N. Ziviani. RecSys. 2019.

Random Walks on the Reputation Graph

S. Ribas, A. Ueda, R. Santos, B. Ribeiro-Neto, E. de Souza e Silva, N. Ziviani. ICTIR. 2015.

Using Reference Groups to Assess Academic Productivity in Computer Science

S. Ribas, A. Ueda, B. Ribeiro-Neto, E. de Souza e Silva, N. Ziviani. WWW. 2015.

WORK EXPERIENCE

Programa Capacidades Analíticas - MPMG/UFMG

Belo Horizonte, Brazil Fev 2022 - Jul 2023

Technical Lead

Automatic verification of legal requirements of active transparency in public administration of municipalities of the state of Minas Gerais, including data crawling, storage, and validation.

Axxiom Technology and Innovation - CEMIG

Belo Horizonte, Brazil

Software Engineer

Sep 2013 - Jul 2014

Design, development, and deployment of software improvements in electric power distribution systems.

UOL Universo Online

São Paulo, Brazil

Software Engineer

Fev 2013 - Aug 2013

Developed Web services to the online trade of discount coupons. Provided maintenance of company products such as its job-seeking platform and antivirus.

Touch Health

São Paulo, Brazil

Software Developer

Sep 2008 - Jul 2012

Worked on management systems for diagnostic medicine companies, improving the data work-flow from the patient registration to the production of structured medical reports.

LANGUAGE

English (IELTS 7.5), Portuguese (native proficiency)

TECHNICAL SKILLS

Programming Languages

Python, C++, Java

Libraries

Jupyter Notebook, Pandas

Other

Git, Bash, LaTeX