Nora Patricia Hernandez Lopez

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Research interests

AI education; STEAM education; Learning Sciences; Learning analytics

Education

2021 – Present	**The University of Hong Kong** – HKSAR Ph.D., Education Supervisor: Dr. Xiao Hu; Co-supervisors: Dr. Samuel K. W. Chu, Dr. Gary K. W. Wong
2018 – 2020	**Tecnologico de Monterrey** – Mexico M.Sc., Computer Science Supervisor: Dr. Jorge Adolfo Ramírez Uresti *GPA: 97/100.*
2018 – 2020	**Universidad del Valle de Mexico** – Mexico M.Ed., Innovation and Educational Technology *GPA: 9.5/10.*
2011 – 2016	**Tecnologico de Monterrey** – Mexico B.Eng., Mechatronics *GPA: 92/100.*

Selected honours and scholarships

2022	ALiTE Fellows Programme for Doctoral Students 2022-23
2021	Hong Kong Ph.D. Fellowship 2021/22 (Research Grants Council, HKSAR)
2021	HKU Presidential Ph.D. Scholarship 2021/22 (The University of Hong Kong, HKSAR)
2018	National Post-graduate Scholarship (CONACyT, Mexico)
2018, 2011	Academic Excellence Scholarship (Tecnologico de Monterrey, Mexico)

Research Outputs

2020   **Hybrid Recommender System for a Context Aware Recommendation in the Film Domain**
Master Thesis.

2019   **Razonamiento estadístico**
Estrada Real, A. y Hernández López, N.P.
Razonamiento Computacional, 1st ed. [online] México: Francisco Cantú & Rocío Aldeco (Ed), pp.63-102. Available at: http://amexcomp.mx/files/Libro-CyR.pdf.

–   **A Context Hybrid Bayesian Model for Recommendations**
Hernández López, N.P. y Ramírez Uresti, J.A.
Personal and Ubiquitous Computing..

Professional Training

2023   Bayesian Statistics for Social and Health Scientists in R and Python – Online
Institute for Statistical and Data Science

2022   **Learning Analytics Summer Institute (LASI)** – Canada, online
University of British Columbia
Awarded with Erik Duval Scholarship

Conference Presentations

2022   **IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE)** – Hong Kong
The Hong Kong Polytechnic University
Second Runner Up: TALE 2022 Interdisciplinary Postgraduate Student Forum

2022   **Forum for Social Experiments for AI in Education** – China
Graduate School of Education, Peking University
Presentation: Computing Education meets the Arts: Preliminary results from a systematic review

2020   **Congreso de Investigación y Desarrollo (CIDTEC)** – Mexico
Tecnologico de Monterrey
Poster presentation: A Context Hybrid Bayesian Model for Movie Recommendations

Other Conference Participation

2022	**International Conference of the Learning Sciences (ICLS)** – Japan, hybrid *Attendee*
2021	**International Society for Music Information Retrieval (ISMIR) Conference** – online *Volunteer*
2016	**INCmty** – Mexico *Participant: Bus Challenge (Innovation and entrepreneurship bootcamp)*

Professional experience

2016-2017, 2020	**Aerobot Planet (co-founder, project developer)** – Mexico Start-up company dedicated to deliver STEAM educational programs for youth between 10 and 14 years old.
2016	**Ternium (Quality Specialist)** – Mexico Revising requirements for ISO/TS:16949 certification. Monitoring complaints solutions and customer service satisfaction. Implementing a data analysis engine to deliver relevant product quality insights.
Jul-Dec 2015	**Ternium (Production Intern)** – Mexico Monitor and reduce fuel consumption in re-heat process pre-milling of steel wires. Lead operational teams for quality assurance and operational safety.

Technical Skills

Programming languages
Proficient in: R, Matlab, Python
Familiar with: Javascript

Software
Weka, Advanced MS Office, Autodesk Inventor, Adobe CC (Premiere, InDesign), LATEX, Git

Languages
Spanish (native), English (fluent), German (basic)

Continuous Education

2020	Improving Your Statistical Questions – Eindhoven University of Technology (Coursera)

Improving Your Statistical Inferences – Eindhoven University of Technology (Coursera)

Introduction to Relational Database and SQL – (Coursera)

Big Data Analytics: Opportunities, Challenges and the Future – Griffith University (Future Learn)

Learning and Memory: Understandings from Educational Neuroscience – Central Queensland University (Future Learn)

Big Data and Language – KAIST (Coursera)

The Science of Wellbeing – Yale University (Coursera)

Creative Writing: The Craft of Plot – Wesleyan University (Coursera)

COVID19 Data Analysis Using Python – (Coursera)

2019   Recommender Systems Specialisation – University of Minnesota (Coursera)

Probabilistic Graphical Models – Stanford University (Coursera)

2018   R programming – Johns Hopkins University (Coursera)

2014   The Language of Hollywood: Storytelling, Sound, and Color – Wesleyan University (Coursera)

Other Interests

Probability & Statistics, Statistical reasoning, Cognitive Science, Linguistics