

# Nora Patricia Hernández López

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## Research interests

AI education; STEAM education; Learning sciences; Learning analytics

## Education

- 2021 – Present    **The University of Hong Kong** – Hong Kong  
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 (The University of Hong Kong, Hong Kong)
- 2021    Hong Kong Ph.D. Fellowship 2021/22 (Research Grants Council, Hong Kong)
- 2021    HKU Presidential Ph.D. Scholarship 2021/22 (The University of Hong Kong, Hong Kong)
- 2018    National Post-graduate Scholarship (CONACyT, Mexico)
- 2018, 2011    Academic Excellence Scholarship (Tecnologico de Monterrey, Mexico)

## Research Outputs

- 2023 **Research Brief: Understanding School Leadership Models**  
Hernández López, N. P., & Chian, M. M. (2023). *Research brief: Understanding school leadership models*. Academy for Leadership in Teacher Education. Available at: <https://www.alite.edu.hku.hk/post/research-brief-understanding-school-leadership-models>
- 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 estadístico. (2019). In Francisco Cantú & Rocío Aldeco (Eds.), *Razonamiento Computacional* (pp.63-102). Academia Mexicana de Computación, A.C. <http://amexcomp.mx/files/Libro-CyR.pdf>
- 2020 **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  
*Awarded with Erik Duval Scholarship*  
Society for Learning Analytics Research; University of British Columbia

## Conference Presentations

- 2022 **IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE)** – Hong Kong  
*Second Runner Up: TALE 2022 Interdisciplinary Postgraduate Student Forum*  
The Hong Kong Polytechnic University
- 2022 **Forum for Social Experiments for AI in Education** – China  
*Presentation: Computing Education meets the Arts: Preliminary results from a systematic review*  
Graduate School of Education, Peking University

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

### Public Presentation & Talks

- 2023 **Panel de discusión: El papel de la mujer en la ciencia** – Hong Kong  
*Discussion Panel: The role of women in science*  
Consulate General of Mexico in Hong Kong

### 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),  
L<sup>A</sup>T<sub>E</sub>X, 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