

# ARTURO MONCADA-TORRES

## Biomedical Data Scientist

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### PROFILE

- Driven by **improving people's health** through the practical implementation of data-informed solutions using machine learning and artificial intelligence tools.
- Strong **problem-solving** and **critical-thinking capacities**, proven by the successful completion of numerous scientific research studies in diverse areas of healthcare and medical technology.
- Efficient **interpersonal communication skills** leading to cross-functional collaborations with stakeholders of diverse multidisciplinary backgrounds (e.g., scientists, health professionals, policy makers, engineers) across different teams, research groups, and institutions.
- Solid **scientific analytical skills** and **data analysis** abilities as evidenced by the authorship of several peer-reviewed papers and panel-reviewed research presentations.

⌞ <http://www.arturomoncadatorres.com/publications> 

### EXPERIENCE

- |  |   |
|--|---|
| Kite Pharma (NL)<br>2023 – Today   | <b>Senior (Associate) Data Scientist</b><br><b>Designed, developed, and deployed explainable machine learning- and AI-based models</b> to support decision-making in the manufacturing process of immunotherapy in a GMP environment.   |
| IKNL  (NL)<br>2018 – 2023       | <b>Clinical Data Scientist</b><br><b>Designed, developed, and implemented explainable machine learning- and AI-based pipelines</b> based on <b>observational data</b> from the Dutch National Cancer Registry to predict survival  , improve treatment, and support in decision-making processes for different stakeholders in a patient's care pathway <br><b>Developed and implemented federated learning applications</b> to predict patient outcomes while preserving data privacy <br><b>Guided, managed, and supervised</b> master's/PhD students through their theses, while supporting them as part of their early career development. |
| KU Leuven  (BE)<br>2014 – 2018  | <b>Doctoral Researcher</b><br><b>Designed, developed, and implemented physiological acoustic neurological models</b> of speech understanding  , modulation detection  , and binaural hearing <br>⌞ In collaboration with Danmarks Tekniske Universitet (DK) <br><b>Collected and analyzed behavioral data</b> of normal hearing, hearing impaired, and listeners with cochlear implants for validating the aforementioned models.<br><b>Guided, managed, and supervised</b> master's students through their theses.                                     |
| ETH Zurich  (CH)<br>2011 – 2013 | <b>Research Assistant</b><br><b>Implemented a machine learning-based algorithm</b> for classification of activities of daily life using <b>wearable sensors'</b> data of healthy participants with an accuracy of >90% <br><b>Designed experiment, collected, and analyzed inertial sensor data</b> to quantify white cane usage to improve travel aids of visually impaired people   |

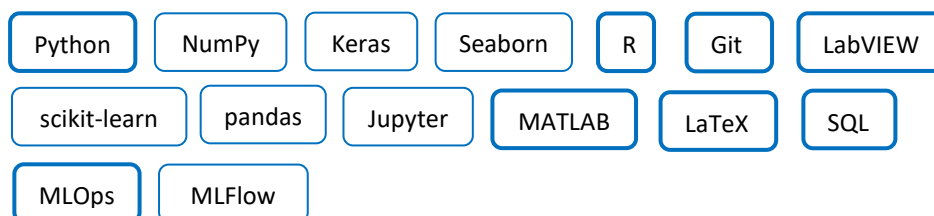
## EDUCATION

KU Leuven (BE) 2014 – 2018	Doctoral Degree in Computational Auditory Neurology <i>Thesis:</i> Applied Physiological Modelling of Auditory Processes – Speech Intelligibility, Modulation Detection, and Binaural Hearing <b>Marie Skłodowska-Curie scholarship</b> for Early Stage Researchers
ETH Zürich (CH) 2012 – 2014	Master of Science in Biomedical Engineering (Cum Laude) Focused on Wearable Technology and MRI Image Analysis <i>MSc Thesis:</i> MR Measurements of Dynamic Changes in Aortic Vessel Area and Pulse Wave Velocities Induced by Simulated Obstructive Apnoea <i>Semester Thesis:</i> Image Interpolation for Reconstruction of 4D MRI Data └ In collaboration with U. of Basel (CH) <b>Excellence scholarship</b> for Master's studies
U. Ibero (MX) 2007 – 2011	Bachelor of Science in Biomedical Engineering (Summa Cum Laude) Major in Instrumentation <i>Thesis:</i> Activity Classification in Healthy Subjects Using an Enhanced IMU └ In collaboration with ETH Zürich (CH) <b>Developed the hardware and signal processing algorithms</b> for a home control system based on electrooculography. National Instruments University Challenge first national prize <a href="#">🔗</a> . <b>Excellence scholarship</b> for Bachelor's studies

## SKILLS



### Programming + Informatics



### Languages

Spanish (native)  
English



Dutch (studying)  
French



German  
Italian



## KNOWLEDGE + SPECIAL ABILITIES

Machine learning + AI  
Computational modelling  
Human anatomy + physiology  
Algorithm development  
Data processing, analysis, and visualization  
Basic (medical) image analysis

Focused attention to detail  
Out-of-the-box thinking  
Fast and keen learner driven to action  
Team leader + team player  
Interdisciplinary communication



### HOBBIES

Rollerblading  
[LEGO building](#) (including [robotics](#))  
Volleyball (indoor)  
Pop and biomedical data science [projects](#)  
Gaming

*References are available upon request*