

Ujjayanta BHAUMIK



CONTACT DETAILS

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Stapleplein 13, Gent 9000, Belgium

PERSONAL INFORMATION

Citizenship: **India**

Languages: **English** (native), **Dutch** (B1), **Spanish** (B1), **Bengali** (native), **Hindi** (native)

TECHICAL SKILLS

- Python, C, C++, MATLAB
- Image Processing, Color Science
- Data Science, Machine Learning, NLP
- Pandas, Sklearn, Streamlit
- HTML, CSS, Javascript
- Unity, AFrame, Mitsuba

WORK EXPERIENCE

RESEARCH ASSISTANT at *KU Leuven*

2021.09–present

- ◊ Investigated the perception of light in both real and virtual environments
- ◊ Assessed the colorimetric performance of head mounted displays using various color characterization models and simulations
- ◊ Designed and maintained the website of the Light & Lighting Lab, KU Leuven ([Accessible here](#))

AI CONTENT DEVELOPER at *Sustainable Living Lab*

2020.08–2021.08

- ◊ Created AI educational content aimed at youths, vocational graduates and working professionals in more than 10 different countries
- ◊ Designed AI-driven web applications for demonstrating core AI concepts

ANALYST INTERN at *Indian School of Business*

2020.02–2020.07

- ◊ Accelerated research at the Institute of Data Science in the areas of Computer Vision and Natural Language Processing
- ◊ Organised the courses for the courses Data Mining and Big Data Management as a teaching assistant

EDUCATION

RESEARCH ASSISTANT Virtual Reality. *KU Leuven, Wavecore/Light & Lighting Laboratory, Belgium.*

2021–present

- ◊ Research topic: *Perception of light in real and virtual environments.*

M.SC, COMPUTER GRAPHICS VISION AND IMAGING (Distinction). *University College London, UK.*

2018–2019

- ◊ Thesis title: *Colour Perception: Mapping the Perceptual Limits of Surface Colour* ([Accessible here](#))

B.TECH (HONS) COMPUTER SCIENCE AND ENGINEERING (Distinction | GPA: 9.34/10). *NIT Jamshedpur, India.*

2014–2018

- ◊ Thesis title: *Digital Image Processing techniques involving fractional differential filters to remove noise from ECG signal.*

PUBLICATIONS

SYSTEMATIC COMPARISON OF HEAD MOUNTED DISPLAY COLORIMETRIC PERFORMANCE USING VARIOUS COLOR CHARACTERIZATION MODELS **2023**

- ◊ **Ujjayanta Bhaumik**, Frédéric B. Leloup, and Kevin Smet, ([Publication accessible here](#))

POCAL: A PYTHON-BASED LIBRARY TO PERFORM OPTICAL COATING ANALYSIS AND DESIGN *Optics Continuum* **2023**

- ◊ Tommaso Fontanot, **Ujjayanta Bhaumik**, Ravi Kishore, and Youri Meuret, ([Publication accessible here](#))

HONORS & AWARDS

- ◊ Valedictorian, B.Tech(Hons.), Computer Science and Engineering, NIT Jamshedpur

- ◊ Intech Olympiad Runners up for the development of an Augmented Reality application for remote car servicing, College of Engineering Pune

HOBBIES AND INTERESTS

Languages and Linguistics: researching word etymologies.

Art: Origami, 3D modelling and designing, and Juggling