

# Himanka Kalita

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PhD Researcher Short CV

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## EDUCATION

<b>Doctor of Philosophy</b>   <i>Applied Electronics</i> Università degli Studi Roma Tre	Nov. 2017 – May. 2022 Rome, Italy
<b>Master of Technology</b>   <i>Information Technology</i> North Eastern Regional Institute of Science and Technology	Jul. 2013 – Jun. 2015 Nirjuli, India
<b>Bachelor of Technology</b>   <i>Computer Science and Engineering</i> Assam Don Bosco University	Jul. 2009 – Jun. 2013 Guwahati, India

## WORK EXPERIENCE

<b>Erasmus+ UI/UX Research Intern</b> Time Village	Jul. 2020 – Feb. 2021 Stockholm, Sweden
<b>Early Stage Researcher for <a href="#">ENCASE</a> (EU H2020 Project)</b> Signal Generix	Jul. 2019 – Aug. 2019 Limassol, Cyprus
<b>Early Stage Researcher for <a href="#">ENCASE</a> (EU H2020 Project)</b> Telefonica I+D	Sep. 2018 – Dec. 2018 Barcelona, Spain
<b>Early Stage Researcher for <a href="#">ENCASE</a> (EU H2020 Project)</b> CyRIC	May 2018 – Aug. 2018 Nicosia, Cyprus
<b>Administration Assistant</b> Indian Institute of Technology Guwahati	Mar. 2017 – Nov. 2017 Guwahati, India
<b>Computer Science Teacher</b> Kendriya Vidyalaya IIT Guwahati	Mar. 2016 – Mar. 2017 Guwahati, India
<b>Developer Summer Intern</b> Indian Oil Corporation Limited	Jun. 2012 – Jul. 2012 Guwahati, India

## PROJECTS AND RESEARCH

<b>Deep Learning for Biometric Recognition in Mobile Devices in Python</b> Università degli Studi Roma Tre	2019 – 2022
<b>UI/UX Erasmus+ Research Project in HTML5, CSS3, JavaScript, and Ember.js</b> Time Village	2020 – 2021
<b>Biometric Recognition in Handheld Devices using GMM in Python</b> Università degli Studi Roma Tre	2019 – 2020
<b>Classification of online social network (OSN) activity using CNN in Python<sup>1</sup></b> Signal Generix	2019 – 2019
<b>Study and classification of EEG brainwave using CNN in Python</b> Telefonica I+D	2018 – 2018
<b>Development/integration of NLP module for filtering sensitive text content in Python<sup>1</sup></b> CyRIC	2018 – 2018
<b>Virtual Labs Integration Project Phase 2 using HTML5, CSS3, JavaScript, and C++</b> Indian Institute of Technology Guwahati	2017 – 2017
<b>Reversible Secret Image Sharing in MATLAB, Master's thesis project</b> North Eastern Regional Institute of Science and Technology	2014 – 2015
<b>Android based GSM Home Security System in JAVA/C++, Bachelor's thesis project</b> Assam Don Bosco University	2012 – 2013
<b>IPv4/v6 Network Subnet calculator in JAVA, Bachelor's internship project</b> Assam Don Bosco University	2012 – 2012

<sup>1</sup>Modules of ENCASE project

## PUBLICATIONS

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- [1] H. Kalita, E. Maiorana, and P. Campisi. “Keystroke Dynamics for Biometric Recognition in Handheld Devices”. In: *2020 43rd International Conference on Telecommunications and Signal Processing (TSP)*. Paper [link](#). 2020, pp. 410–416. DOI: [10.1109/TSP49548.2020.9163524](https://doi.org/10.1109/TSP49548.2020.9163524).
- [2] H. Kalita, M.M. Singh, and T. Tuithung. “A Reversible Secret Image Sharing Scheme in Matrix Projection Using Discrete Haar Wavelet Transform”. In: *2015 National Conference on Computing, Communication and Information Processing (NCCCIP)*. Paper [link](#). 2015, pp. 105–111.
- [3] E. Maiorana, H. Kalita, and P. Campisi. “Deepkey: Keystroke Dynamics and CNN for Biometric Recognition on Mobile Devices”. In: *2019 8th European Workshop on Visual Information Processing (EUVIP)*. Paper [link](#). 2019, pp. 181–186. DOI: [10.1109/EUVIP47703.2019.8946206](https://doi.org/10.1109/EUVIP47703.2019.8946206).
- [4] Emanuele Maiorana, Himanka Kalita, and Patrizio Campisi. “Mobile keystroke dynamics for biometric recognition: An overview”. In: *IET Biometrics* 10.1 (2021). Paper [link](#), pp. 1–23. DOI: <https://doi.org/10.1049/bme2.12003>.
- [5] R. K. Sharma et al. “Android interface based GSM home security system”. In: *2014 International Conference on Issues and Challenges in Intelligent Computing Techniques (ICICT)*. Paper [link](#). 2014, pp. 196–201. DOI: [10.1109/ICICT.2014.6781278](https://doi.org/10.1109/ICICT.2014.6781278).

## SKILLS

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**Operating System:** Windows, Linux

**Human Languages:** Assamese (Native), Hindi (B2), English (C2), Italian (A1)

**Programming Languages:** Python, Kotlin, C, C++, MATLAB, Java

**Scientific IDE:** PyCharm, Jupyter Notebooks, VS Code, Android Studio, MATLAB, Anaconda, IntelliJ Idea

**Web Technologies:** HTML5, CSS3, JavaScript, JSON, RESTful APIs

**Database:** MySQL, Firebase for Android, MongoDB

**Document Creation:** LaTeX, Microsoft Office Suite

**Machine/Deep Learning Frameworks:** SciKitLearn, CUDA, Tensorflow, PyTorch, Keras

## REFERENCES

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References available upon request.