DR. HORIA ALEXANDRU MAIOR

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EDUCATION

PhD in Digital Economy, University of Nottingham, UK *2012-2017*
Thesis:*"Real-Time Physiological Measure and Feedback of Workload"*
Award: *The Doctoral Prize Award by the Engineering and Physical Science Research Council (EPSRC)*

B.Sc. in Computer Science, Swansea University, UK *June 2012*
Dissertation: *"Modelling and Simulation of Railways Signalling. Safe Trains - a CSP Approach"*
Award: *First class honours degree*

ABOUT

Strong multi-disciplinary and technical profile, with analytical and problem solving skills applied in a wide range of contexts. I have developed excellent communication skills and public speaking with over 50 talks at top national and international venues. I am passionate about empowering others and creating for others, and my recent work is focusing on bringing more digital skills to young people. I have managed and organised small to large scale projects, and events, from research to educational programs and workshops for the community.

I have a strong knowledge of the Software Engineering steps as well as the tools and techniques involved in developing technology from concept to deployment. I also code. I primarily worked with web languages such as HTML, javascript, PHP and SQL and other languages such as Java, Python, Perl, C++ and C#;

I am currently a Lecturer in Computer Science at the University of Lincoln and a Technology Consultant at RatedDoctor.com startup. But the most fulfilling work I do is developing and coordinating community projects as part of Inspire Foundation Charity, where I play the role of the chairman.

AWARDS, HONOURS AND GRANTS

The *JCI Ten Outstanding Young Persons (TOYP)* Award October 2019
Junior Chamber International (JCI), Romania

I was very honoured to be named and receive the JCI TOYP 2019 award as a result of my academic, research, as well as the high impact community work focused on education, technology and bringing more digital skills to young people in the community.

£3000 Public Engagement Grant, University of Nottingham, UK July 2019
· Part of the community projects that I am coordinating under the Inspire Foundation Charity, we successfully secured the £3000 Public Engagement Grant from the University of Nottingham. These funds contribute to the *'Victor Tudorica (VT) Bursary for Education and Development'* program aimed to bring more digital skills to vulnerable young people in the community (Nottingham), and increase their chance of following further higher education studies and a career in science and technology.

£70 000 EPSRC Doctoral Prize Fellowship 2017 - 2019
The Mixed Reality Lab *University of Nottingham*
· Research grant from the UK Engineering and Physical Sciences Research Council. Winning proposal: *The future fit-bit for the brain based on physiological sensors, tracking the mental workload of everyday task.*
· Computerphile video about some of this work ($> 50k$ views): `https://youtu.be/TQ0sL1ZGnQ4`

£6000 Postgraduate Ingenuity Award, University of Nottingham September 2015
Offered by CityCare Nottingham Trust and Santander for the best University of Nottingham Social Enterprise.

£2800 Internal and External Research Travel Grants, University of Nottingham 2014 - 2016

INDUSTRY AND VOLUNTEERING

Chairman of Inspire Foundation Charity, Nottingham, UK
2018-present

· Charity goal is to inspire young people in the community, empowering them with digital and life skills, therefore increasing their chances to follow higher education studies and a career in science and technology.
· The skills and lessons learned include: strategic leadership and governance of the organisation, working with young people in the community, coordinating short term and long term projects. I have developed a passion and commitment to the charity and creating opportunities for the next generations.
· I act as a figurehead for the charity, and responsible to develop External Relations (identifying and connecting with the key people and organisations to ensure maximum impact on the community).

RatedDoctor.com Startup
2016 - 2019

Technology Consultant — *Nottingham*

· Worked with stakeholders to conceptualise digital healthcare startup `rateddoctor.com`.
· Conducted UX research using a range of methods (e.g. user interviews, targeted ethnography, surveys)
· Filled the gap between the stakeholders, the development team and the senior management.
· Designed and executed research plans, selected appropriate methods and timeframes;
· Delivered findings, prioritised recommendations and overseen these through implementation.

Web developer, AMPsuite LTD, Nottingham, UK
Sep 2014 - June 2015

Building web-based software tools for Records Label companies across the globe. Client and user focused.

ACMCHI Conference on Computer-Human Interaction
May 2017 - May 2018

Conference Courses Co-Chair — *Montreal, CANADA*

Organizing Courses at CHI2017 - coordinating the format, the program, submission and other raised issues.

ACMCHI Conference on Computer-Human Interaction
May 2016

Student Volunteer at chi4good — *San Jose, CALIFORNIA*

Part of the organising team, coordinating the plenary and other conference talks, preparing workshops.

Intern with IIIT-Bangalore, Bangalore, India
Jan 2014 - May 2014

Intern with Invensys Rail and Swansea University
June 2011 - Sep 2011

ACADEMIC AND RESEARCH

Lecturer in Computer Science and Playful Technologies
2019

School of Computer Science — *University of Lincoln*

· Equivalent to an Assistant Professor position in the U.S. I do research and teaching.
· As part of my role, I am also involved in outreach in the local community, providing educational workshops and activities to inspire young people towards science and technology.

Postdoctoral Researcher - EPSRC Doctoral Prize Award
2017 - 2019

The Mixed Reality Lab — *University of Nottingham*

· The proposed research title *Brain-Tracker: A fit-bit for the Brain based on physiological sensors, tracking the mental workload of everyday tasks.*
· This project resulted in new research collaborations and knowledge transfer with industry partners such as Jaguar Land Rover (JLR) and Brain Plus, new research development including scientific publications, research outreach with conference presentation, new research data sets, outreach on various public channels, and even outreach and impact on the local community (See Volunteering Section).

Teaching Fellow in Computer Science, University of Nottingham, CHINA
Feb 2017 - Sep 2017

This was one of the experiences where I had the chance to learn and work with people from a wide range of cultures and backgrounds.