Curriculum Vitae – Victoria Mazo, PhD

+972-542800980 ◘ Hod Hasharon, Israel ◘ victoria.mazo@gmail.com

EMPLOYMENT

2016 – present **Deep Learning Researcher, Zebra Medical Vision**
Developed and implemented applications for detection of pathologies in lungs CT and brain CT using the Semantic Segmentation approach and Generative Adversarial Networks.

2014 –2016 **Researcher, Cyberbit** (formerly Intelligence division at **Nice**)
Developed and implemented applications for osint (open source intelligence) and surveillance, such as Face Liveness Detection, Image Captioning, Sentiment Analysis and Semantic Similarity

2009 - 2014 **Teaching Assistant**, **Bar Ilan University**

2007 - 2009 **Process Engineer**, **Intel**
Analyzed with statistical methods and improved quality of gates in transistor manufacturing

EDUCATION

2009 - 2014 **PhD in Physics**, Bar Ilan University
Field: Theoretical Condensed Matter Physics
Dissertation Title: "Monolayer and Bilayer Graphene Ribbons in a Strong Magnetic Field"
Dissertation Adviser: Prof. E.Shimshoni

2012 - 2014 **M.Sc. in Financial Mathematics**, Bar Ilan University

2003 - 2007 **M.Sc. in Physics**, Tel Aviv University
Field: Theoretical High Energy Physics, String Theory
Thesis Title: "On AdS/CFT Models"
Thesis Advisers: Prof. J.Sonnenschein (Tel Aviv University) and Prof. N.Obers (Niels Bohr Institute, Denmark)

2000 - 2003 **B.Sc. in Physics**, Bar Ilan University

KNOWLEDGE AND COMPETENCIES

- Experienced in **Deep Learning** and **Machine Learning**
- Excellent **analytical and problem solving skills**
- Proficient with **Python** and **Matlab**, limited proficiency with **C**/**C++** and **Java**
- Highly **motivated**, with **excellent interpersonal skills** and **team work** experience

LANGUAGES

Fluent in **English, Hebrew** and **Russian** , and proficient in **German**

PUBLICATIONS

- V. Mazo, I. Tamir, E. Toledano and E. Elnekave “Recurrent Fully Convolutional DenseNet for Bronchiectasis Detection in CT Imaging”, Submitted to ICML (2017)
- V. Mazo, I. Tamir, E. Toledano and E. Elnekave “Ground Glass Opacity Detection Using Fully Convolutional Neural Networks”, Submitted to MICCAI (2017)
- V. Mazo, E. Shimshoni , C.-W. Huang, S. Carr and H.A. Fertig “Helical quantum Hall edge modes in bilayer graphene: a realization of quantum spin-ladders”, Physica Scripta, Vol. 2015, T165 (2015)
- V. Mazo, C.-W. Huang, E. Shimshoni, S. Carr and H.A. Fertig “Superfluid-insulator transition of quantum Hall domain walls in bilayer graphene”, Phys. Rev. B 89, 121411 (2014)
- V. Mazo, E. Shimshoni and H.A. Fertig “Collective edge modes of a quantum Hall ferromagnet in graphene”, Phys. Rev. B 86, 125404 (2012)
- V. Mazo, E. Shimshoni and H.A. Fertig “Edge states of bilayer graphene in the quantum Hall regime”, Phys. Rev. B 84, 045405 (2011)
- V. Mazo and J. Sonnenschein “Non critical holographic models of the thermal phases of QCD”, JHEP, Vol. 06, 091 (2008)