Filippos Kokkinos

- Ph.D. student @ UCL
- filippos.kokkinos@ucl.ac.uk
- **https://fkokkinos.github.io/**

Education

- **University College London (UCL)** — London, UK
  Department of Computer Science — *2019 - 2021 (expected)*
  Pursuing/continuing my Ph.D. under the supervision of Prof. Iasonas Kokkinos on the topic of deep learning and 3D reconstruction.

- **Skolkovo Institute of Science and Technology (Skoltech)** — Moscow, Russia
  Center for Computational and Data-Intensive Science and Engineering (CDISE) — *2017 - 2019*
  Started a Ph.D. under the supervision of Prof. Stamatios Lefkimmiatis.
  Transferred to UCL after advisors' transition to industry.

- **National Technical University of Athens** — Athens, Greece
  School of Electrical and Computer Engineering — *2011 - 2017*
  Thesis: "Analysis and development of a deep learning system for sentiment classification"
  Thesis Supervisor: Prof. Alexandros Potamianos

Experience

- **Huawei Noah's Ark Lab (London)** — **www.huawei.com**
  Research Intern — *July 2019 - May 2021*
  Research on deep spatially adaptive computational graphs for image and video processing during July and October of 2019. Further, research collaboration, which started on October 2020, for the development of a learnable optimization framework for wide range of computer vision tasks.

- **Baby Robot Project (H2020-68783)** — **http://babyrobot.eu/**
  Research Assistant — *2016 - 2017*
  Research on sentiment analysis of textual information from social media and online reviews. Collaboration with Athena Research Center (**https://www.athenarc.gr/**).

- **Behavioral Signals** — **http://behavioralsignals.com/**
  Junior Machine Learning Engineer — *August 2016 - August 2017*
  Part of the modeling team that developed the prototype models to encode and recognize different aspects of human intentions from calls.

- **Water Board of Nicosia**
  Data Analyst Intern — *June - September 2016*
  Development of a prototype real-time analysis system of water consumption data with capabilities to geographically pinpoint and prioritize potential water pipe bursts.

Honors and Awards

- **Skoltech Scholarship for Ph.D. Studies**
  - Scholarship (highest scale) from Skoltech University for developing cutting edge Image Processing technologies as part of my Ph.D. program.

- **A great moment for education 2011**
  - Fellowship from Eurobank EFG for graduating first in high school in Nationwide Examination.

- **Win SemEval-2016 Task 4: Sentiment analysis of Twitter, Subtask B**
  - Tweester team won the SemEval-2016 Task 4: Sentiment analysis of Twitter, Subtask B: Tweet classification according to a two-point scale.

Technical Skills & Reviewing Activity

Languages: C/C++, LaTeX, Python, MATLAB, Bash, Assembly, SQL
Libraries: Pytorch, Tensorflow, Keras, OpenCV
Operating Systems: Windows, Linux
Reviewer Activity: CVPR, IEEE TIP

Teaching

- **Teaching Assistant**
Post-graduate	Signal and Image Processing @ Skoltech	2017, 2018
Undergraduate	Speech and Natural Language Processing @ NTUA	2016, 2017

Publications

- **Pre-Prints**

  - *F. Kokkinos and I. Kokkinos, "To The Point: Correspondence-driven monocular 3D category reconstruction", (under review)* pdf
  - *F. Kokkinos, I. Marras, M. Maggioni, G. Slabaugh, S. Zafeiriou, "Pixel Adaptive Filtering Units", arXiv 1911.10581*

- **Conference papers**

  - *F. Kokkinos and I. Kokkinos, "Learning monocular 3D reconstruction of articulated categories from motion", CVPR 2021*
  - *V. Pronina, F. Kokkinos, S. Lefkimmiatis, D. Dylov, "Microscopy Image Restoration with Deep Wiener-Kolmogorov filters", ECCV 2020*
  - *F. Kokkinos, S. Lefkimmiatis, "Iterative Residual CNNs for Burst Photography Applications.", CVPR 2019*
  - *F. Kokkinos, S. Lefkimmiatis: "Deep Image Demosaicking using a Cascade of Convolutional Residual Denoising Networks.", ECCV 2018*
  - *F. Kokkinos, A. Potamianos: "Structural Attention Neural Networks for improved sentiment analysis", EACL 2017*

- **Workshop papers**

  - *A. Kolovou, F. Kokkinos, A. Fergadis, P. Papalampidi, E. Iosif, N. Malandrakis, E. Palogiannidi, H. Papageorgiou, S. Narayanan, A. Potamianos: "Tweester at SemEval-2017 Task 4: Fusion of Semantic-Affective and pairwise classification models for sentiment analysis in Twitter", SemEval 2017*
  - *E. Palogiannidi, A. Kolovou, F. Christopoulou, F. Kokkinos, E. Iosif, N. Malandrakis, H. Papageorgiou, S. Narayanan, A. Potamianos: "Tweester at SemEval-2016 Task 4: Sentiment analysis in twitter using semantic-affective model adaptation", SemEval 2016*

- **Journals**

  - *F. Kokkinos, S. Lefkimmiatis: "Iterative Residual Network for Deep Joint Image Demosaicking and Denoising", IEEE TIP 2019*

Patents

- *F. Kokkinos, I. Marras, M. Maggioni, G. Slabaugh, S. Zafeiriou, "Spatially Adaptive Image Filtering", EP2019/081370* **(filed)**

Languages

Greek (Native), English (Fluent), Russian (Basic), German (Basic)