# **Anastasis Stathopoulos**

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#### **EDUCATION**

### **Rutgers University**

Piscataway, NJ, USA

Ph.D. Student in Computer Science

- Advisor: Dimitris Metaxas > | GPA: 3.95/4.00

- Research Area: Computer Vision and Deep Learning

Athens, Greece

Oct. 2012 - June 2018

Sept. 2018 - Present

Integrated Masters in Electrical & Computer Engineering (ECE)

- Major: Computer Engineering | GPA: 8.12/10.00

National Technical University of Athens (NTUA)

- Thesis: Real-time Joint Semantic Reasoning for Autonomous Driving

#### **EXPERIENCE**

# Amazon Prime Video, Video Compliance & Classification

Seattle, WA, USA

May 2020 - Aug. 2020

Applied Science Intern | Video Understanding

- Self-Supervised Video Representation Learning
- Representation Learning for Human Activity Recognition
- Produced publication for internal conference
- **Technologies:** Python PyTorch Apache MXNet

## Rutgers University, Computer Science Department, CBIM

Piscataway, NJ, USA

Research Assistant | Advisor: Dimitris Metaxas

Sept. 2018 - Present

- Self-Training for improving Visual Recognition tasks using unlabeled data (Current Work)
- Deception Detection in Videos using Robust Facial Features (FTC 2020)
  - ♦ Built model to detect deception in videos based on visual cues
  - ♦ Surpassed previous SOTA methods on the task
  - ♦ Proposed mechanism to interpret the model's prediction as a function of the FAUs
- Unbiased Auxiliary Classifier GANs (CVPRW 2020)
  - ♦ Reduced bias in GANs by estimating the Mutual Information between the generated data distribution and the labels
  - ♦ Evaluated on Image Generation datasets surpassing previous methods
  - ♦ Metrics: Inception Score and Frenchet Inception Distance
- Technologies: Python PyTorch

#### Teaching Assistant

Sept. 2018 - May 2020

- CS:112: Data Structures (Spring 2019, 2020)
- CS:596: Topics in the Foundations of Computer and Data Science (Fall 2019)
- CS:314: Principles of Programming Languages (Fall 2018)
- **Technologies:** Java Matlab Haskell Prolog

#### National Technical University of Athens (NTUA), ISLAB

Athens, Greece

Research Assistant | Thesis Preparation | Advisor: Andreas Stafylopatis Sept. 2017 - June 2018

- Built model for joint Semantic Segmentation and Object Detection via a unified architecture
- Road Segmentation and Vehicle Detection in the KITTI dataset | Inference speed: 12 fps
- **Technologies:** Python Tensorflow Keras

#### Rutgers University, ECE department, RADICAL

Piscataway, NJ, USA

Visiting Researcher | Host: Shantenu Jha

Summer 2016

- Implemented the Watershed Segmentation Algorithm and applied it to cell tissue images

- Conducted experiments in parallel and distributed environments to characterize its performance
- Technologies: Python Radical Pilot Apache Spark

#### **PUBLICATIONS**

- [1] Anastasis Stathopoulos, Ligong Han, Norah Dunbar, Judee K. Burgoon, Dimitris Metaxas, "Deception Detection in Videos using Robust Facial Features". In Proceedings of Future Technologies Conference (FTC), 2020.
- [2] Ligong Han, **Anastasis Stathopoulos**, Tao Xue, Dimitris Metaxas, "Unbiased Auxiliary Classifier GANs with MINE". In CVPR workshop on Adversarial Machine Learning in Computer Vision, 2020.
- Oral Presentation DeepMind Travel Award

#### TECHNICAL PROJECTS

Plug-and-Play Controlled Text Generation via Attribute-based Attention 🔼 Spring 2020

- Proposed and built the first plug-and-play model that handles infobox-style attribute-value pairs for conditional text generation
- Combined a pre-trained unconditional language model (GPT-2) with an NER tagging system (BERT-based attribute classifier) for controllable text generation without fine-tuning
- Technologies: Python PyTorch

# Missing-Data Imputation 🗘

Spring 2019

- Implemented a variation of an autoencoder to impute missing data in the dataset
- Treated the task of filling arithmetic and categorical values uniformly
- Technologies: Python (no DL frameworks used implemented everything from scratch) Pandas

# Chord Protocol Implementation 🗘

Fall 2016

- Implemented (i) sequential replica consistency and (ii) eventual replica consistency versions of the Chord protocol
- Technology: Erlang

### TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, Matlab, Erlang, Haskell, HTML/CSS

Frameworks: PyTorch, TensorFlow, MXNet, Keras, GluonCV, OpenCV

Tools and Platforms: Linux, Mac OSX, Windows, AWS, Git, Vim, LATEX, Scrum, Kanban Board,

MySQL, MongoDB

#### SOFT SKILLS

Self-motivated | Proactive | Easy-going | Enthusiastic to learn new things

**Languages:** Greek (Native), English (Fluent, level C2), German (Advanced, level C1)

### HONORS AND ACTIVITIES

Gerondelis Graduate Student Fellowship Award, Gerondelis Foundation Google's Code Jam & Hash Code

2019

2015-2018

- Participation and Distinction in those Programming Competitions

#### ACADEMIC SERVICE

Volunteer: SPAWC 2018

External Reviewer: CVPR 2019, ECCV 2020