

Efthymios Tzinis

CONTACT INFORMATION

Primary-Email: etzinis@gmail.com **University-Email:** etzinis2@illinois.edu
etzinis @ etzinis.com  - Github:  - LinkedIn:  - Scholar:  - Twitter:  - YouTube: 


RESEARCH INTERESTS

Audio-Visual Signal Processing, Sound Source Separation, Unsupervised & Self-Supervised Deep Learning, On-device/Federated Learning

EDUCATION




University of Illinois at Urbana Champaign (UIUC) Aug 2018 - May 2023 (Expected)

PhD Candidate in Computer Science (CS)

- Area: Artificial Intelligence
- GPA: *4.00/4.00*
- Dissertation: *Unsupervised sound separation*
- Advisor: Prof. Paris Smaragdis 
- Selected Courses: *Machine Learning for Signal Processing, Deep Learning, Computational Inference and Learning, Optimization in Computer Vision, Machine Learning, Deep Learning Theory, Probabilistic & Approximate Computing*

National Technical University of Athens (NTUA) Oct 2012 - June 2018

Diploma (BS + MEng) in Electrical & Computer Engineering (ECE)

- Highest Honors (top 2%), GPA: *9.36/10.00*
- Major: Computer Science, Major GPA (2 last years): *9.56/10.00*
- Thesis: *Manifold Learning and Nonlinear Recurrence Dynamics for Speech Emotion Recognition on Various Timescales*  
- Advisor: Prof. Alexandros Potamianos 

Arsakeio Tositseio Ekalis Lyceum, Athens, Greece Sept 2009 - July 2012

Apolytirion, Highest Honors

- Top 0.1% in national qualifying exams (score: 19,713/20,000), GPA: *19.5/20*

PROFESSIONAL EXPERIENCE



Google LLC Cambridge, MA, USA May 2022 - Aug 2022

Research Intern at Google AI Perception

- Contrastive and improved audio-visual on-screen sound separation
- Audio-visual scene editing assistant with AudioScope
- Managers: Dr. Scott Wisdom  & Dr. John R. Hershey 

Mitsubishi Electric Research Laboratories, Inc. (MERL) Cambridge, MA, USA (Working remotely) Sept 2021 - May 2022

Student Researcher at the Speech and Audio Team

- The first system that uses heterogeneous semantic concepts to separate speech mixtures
- Seamless audio source separation
- Managers: Drs. Jonathan Le Roux , Gordon Wichern 

Meta Platforms, Inc. (ex-Facebook, Inc.) Redmond, WA, USA (Working remotely) May 2021 - Aug 2021

Research Intern at Reality Labs at Meta (ex-FRL)

- The first self-supervised speech denoising method with no in-domain assumptions
- Unsupervised and test-time zero-shot domain adaptation
- Semi-supervised domain generalization for speech enhancement

- Manager: Dr. Anurag Kumar 🎓

Google LLC

Cambridge, MA, USA (Working remotely)

May 2020 - May 2021

Student Researcher at Google AI Perception

Aug 2020 - May 2021

- In-the-wild audio-visual universal sound source separation of on-screen sounds
- AudioScope 2.0 with improved spatio-temporal alignment of universal on-screen sounds
- Efficient transformer-based audio-visual perception
- Managers: Dr. Scott Wisdom 🎓 & Dr. John R. Hershey 🎓

Research Intern at Google AI Perception

May 2020 - Aug 2020

- Unsupervised single channel sound source separation
- State-of-the-art purely unsupervised performance with mixture invariant training
- Managers: Dr. Scott Wisdom 🎓 & Dr. John R. Hershey 🎓

Google LLC

Cambridge, MA, USA

May 2019 - Aug 2019

Research Intern at Google AI Perception

- Utilizing sound classification for improving universal source separation
- Conditioning separation models using semantic representations of multiple sound classes
- Managers: Dr. Scott Wisdom 🎓 & Dr. John R. Hershey 🎓

Behavioral Signal Technologies, Inc.

Los Angeles, CA, USA (Working remotely)

May 2017 - July 2018

Machine Learning Engineer

- Leading the machine learning infrastructure framework development
- Implementing graph-structured pipelines for model training and feature extraction
- Developing efficient real-time speech processing APIs
- Building cognitive-affect, ASR and speaker diarization models
- Managers: Dr. Thodoris Giannakopoulos 🎓 & Dr. Nassos Katsamanis 🎓

ATHENA Research Center

Marousi, Greece

May 2016 - July 2018

Research Assistant at Institute for Language and Speech Processing (ILSP)

- European project *BabyRobot* supported by *Horizon 2020* grant
- Real time speech emotion recognition and multimodal engagement detection
- Supervisor: Prof. Alexandros Potamianos 🎓

SBA Research - Technological University of Vienna

Vienna, Austria

July 2016 - Aug 2016

Research Intern, International Student Exchange Association (IAESTE)

- Project: Seatlock, automatic screen locker for increased computer security
- Implementing circuit level connection for pressure sensors
- Programming Bluetooth low energy microprocessor to transmit encrypted messages
- Developing Linux and Windows applications for screen locking and monitoring
- Supervisor: Dr. Adrian Dabrowski 🎓


Ernst & Young Global Limited (EY)

Athens, Greece

July 2015 - Oct 2015

Intern at the IT Advisory department




- Piraeus Bank's database maintenance (external partner)

























































- Financial data analysis and risk prediction
- Supervisor: Evangelos Kaslis 





















HONORS &
AWARDS

| | |
|--|-----------|
| Google’s PhD Fellowship (\$ 75,000 per academic year) in Machine Perception, Speech Technology and Computer Vision Awarded to exceptional PhD students who represent the future of research in CS fields | 2022-2023 |
| ICML Top Reviewer Award (\$ 1,080 registration) Awarded to the top 10% of the reviewers | 2022 |
| UIUC’s C.L. and Jane Liu Award (\$ 3,000) Awarded annually to one PhD student showing exceptional research promise | 2022 |
| ICLR Highlighted Reviewer Awarded to the top 8.8% of the reviewers (492/5589) | 2022 |
| NeurIPS Outstanding Reviewer Award Awarded to the top 8% of the reviewers | 2021 |
| Google’s PhD Fellowship Nominee Nominated to represent the UIUC to the worldwide competition | 2021 |
| Google on the Spot Bonus (\$ 1,500) Awarded a bonus for my 9-month part-time job as a student researcher considering the final outcome of the project and my code delivery efficiency. | 2021 |
| Facebook’s PhD Fellowship Finalist Top 3.5% of submitted applications globally | 2021 |
| Apple’s Scholars in AI/ML PhD Fellowship Nominee Nominated to represent the UIUC to the national competition | 2020 |
| UIUC’s Computer Science Excellence Fellowship (\$ 6,740) Awarded to recruit and support promising incoming CS graduate students | 2018 |
| HiPEAC Student Challenge Certificate with NTUA’s team, Zagreb, Croatia GPU parallelization of K-means algorithm using sparse matrix operations | 2017 |
| Joint 1st place in EESTech Machine Learning Challenge, Athens, Greece Solving supervised classification problems (participation: 40 teams) | 2017 |
| Participation & Distinction Programming contests: Code Jam, Hash Code, Codechef, IEEE Xtreme (top 5%) | 2015-2017 |
| Paris Kanellakis Fellowship for NTUA-ECE (\$ 2,336) Highest GPA in the computer science specialization between 5th-8th semesters | 2014-2016 |
| “The Great Moment of Education” Eurobank EFG Scholarship (\$ 1,168) Highest rank in national qualifying exams in my school (Score: 19,713/20,000) | 2012 |
| Award from Cultural Society of Santorini Achieved the 7th highest entering score in NTUA, ECE department | 2012 |
| Distinction Maths & Physics competitions for students from all Greek high schools | 2011 |














CONFERENCE
PUBLICATIONS

- [C22] **Tzinis, E.**, Wichern G., Smaragdis, P., and Le Roux, J., “Optimal Condition Training for Target Source Separation.” Submitted to *International Conference of Acoustics, Speech and Signal Processing (ICASSP)*, 2023 (to appear).
[ICASSP 2023] – Presentation –  
- [C21] Bralios, D., **Tzinis, E.**, Wichern G., Smaragdis, P., and Le Roux, J., “Latent Iterative Refinement for Modular Source Separation.” Submitted to *International Conference of Acoustics, Speech and Signal Processing (ICASSP)*, 2023 (to appear).
[ICASSP 2023] – Presentation – 



- [C20] **Tzinis, E.**, Wisdom, S., Remez, T., and Hershey, J. R., “AudioScopeV2: Audio-Visual Attention Architectures for Calibrated Open-Domain On-Screen Sound Separation.” In Proceedings of *European Conference on Computer Vision 2022*, pp. 368–385.
[ECCV 2022] – Poster –     
- [C19] **Tzinis, E.**, Wichern G., Subramanian, A., Smaragdis, P., and Le Roux, J., “Heterogeneous target speech separation.” In Proceedings of *Interspeech*, 2022, pp. 1796-1800.
[Interspeech 2022] – **Oral Presentation** –     
- [C18] **Tzinis, E.**, Adi Y., Ithapu, V. K., Xu B., Kumar, A., “Continual self-training with bootstrapped remixing for speech enhancement.” In Proceedings of *International Conference of Acoustics, Speech and Signal Processing*, 2022, pp. 6947-6951.
[ICASSP 2022] – Poster –     
- [C17] **Tzinis, E.**, Casebeer, J., Wang, Z., and Smaragdis, P., “Separate but Together: Unsupervised Federated Learning for Speech Enhancement from non-IID Data.” In Proceedings of *IEEE Workshop on Applications of Signal Processing to Audio and Acoustics 2021*, pp. 46–50.
[WASPAA 2021] – Poster –     
- [C16] Wang, Z., Casebeer, J., Clemmitt, A., **Tzinis, E.**, and Smaragdis, P., “Sound Event Detection with Adaptive Frequency Selection.” In Proceedings of *IEEE Workshop on Applications of Signal Processing to Audio and Acoustics 2021*, pp. 41–45.
[WASPAA 2021] – Poster –   
- [C15] **Tzinis, E.**, Wisdom, S., Jensen, A., Hershey, S., Remez, T., Ellis, D. P., and Hershey, J. R., “Into the Wild with AudioScope: Unsupervised Audio-Visual Separation of On-Screen Sounds.” In Proceedings of *International Conference on Learning Representations*, 2021.
[ICLR 2021] – Poster –     
- [C14] **Tzinis, E.**[†], Bralios, D.[†], Smaragdis, P. “Unified Gradient Reweighting for Model Biasing with Applications to Source Separation.” In Proceedings of *International Conference of Acoustics, Speech and Signal Processing*, 2021, pp. 531–535.
[ICASSP 2021] – Poster –     
- [C13] Wisdom, S., **Tzinis, E.**, Erdogan, H., Weiss, R. J., Wilson, K., and Hershey, J. R., “Unsupervised Sound Separation Using Mixture Invariant Training.” In *Advances in Neural Information Processing Systems*, vol. 33, pp. 3846–3857, 2022.
[NeurIPS 2020] – **Spotlight (top 4% of submitted papers)** –   
- [C12] Pariente, M., Cornell, S., Cosentino, J., Sivasankaran, S., **Tzinis, E.**, Heitkaemper, J., Olvera, M., Stöter, F.R., Hu, M., Martín-Doñas, J.M. and Ditter, D., “Asteroid: the PyTorch-based audio source separation toolkit for researchers.” In Proceedings of *Interspeech*, 2020, pp. 2637–2641.
[Interspeech 2020] – Poster –   
- [C11] **Tzinis, E.**, Wang, Z., and Smaragdis, P., “Sudo rm -rf: Efficient Networks for Universal Audio Source Separation.” In Proceedings of *IEEE International Workshop on Machine Learning for Signal Processing*, 2020, pp. 1–6.
[MLSP 2020] – **Oral Presentation** –     
- [C10] **Tzinis, E.**, Venkataramani, S., Wang, Z., Subakan, Y. C., and Smaragdis, P., “Two-Step Sound Source Separation: Training on Learned Latent Targets.” In Proceedings of *International Conference of Acoustics, Speech and Signal Processing*, 2020, pp. 31–35.
[ICASSP 2020] – **Oral Presentation** –     
- [C9] **Tzinis, E.**, Wisdom, S., Hershey, J.R., Jansen, A. and Ellis, D.P., “Improving Universal Sound Separation Using Sound Classification.” In Proceedings of *International Conference of Acoustics, Speech and Signal Processing*, 2020, pp. 96–100.
[ICASSP 2020] – **Oral Presentation** –     
- [C8] Venkataramani, S., **Tzinis, E.** and Smaragdis, P., “End-to-end Non-Negative Autoencoders for Sound Source Separation.” In Proceedings of *International Conference of Acoustics, Speech and Signal Processing*, 2020, pp. 116–120.
[ICASSP 2020] – **Oral Presentation** –  

- [C7] Paraskevopoulos, G., **Tzinis, E.**, Ellinas, N., Giannakopoulos, T. and Potamianos, A., “Unsupervised low-rank representations for speech emotion recognition.” In Proceedings of *Interspeech*, 2019, pp. 939–943.
[Interspeech 2019] – Poster –   
- [C6] Venkataramani, S., **Tzinis, E.** and Smaragdis, P., “A Style Transfer Approach to Source Separation.” In Proceedings of *IEEE Workshop on Applications of Signal Processing to Audio and Acoustics*, 2019, pp. 170–174.
[WASPAA 2019] – Poster –  
- [C5] Wang, Z., Subakan, Y. C., **Tzinis, E.**, Smaragdis, P., and Charlin, L., “Continual Learning of New Sound Classes Using Generative Replay.” In Proceedings of *IEEE Workshop on Applications of Signal Processing to Audio and Acoustics*, 2019, pp. 308–312.
[WASPAA 2019] – Poster –  
- [C4] **Tzinis, E.**, Venkataramani, S. and Smaragdis, P., “Unsupervised Deep Clustering for Source Separation: Direct Learning from Mixtures using Spatial Information.” In *Proceedings of International Conference of Acoustics, Speech and Signal Processing*, 2019, pp. 81–85.
[ICASSP 2019] – **Oral Presentation** –    
- [C3] **Tzinis, E.**[†], Paraskevopoulos, G.[†], Baziotis, C., and Potamianos, A., “Integrating recurrence dynamics for speech emotion recognition.” In Proceedings of *Interspeech*, 2018, pp. 927–931.
[Interspeech 2018] – **Oral Presentation** –    
- [C2] **Tzinis, E.**, and Potamianos, A., “Segment-based speech emotion recognition using recurrent neural networks.” In *Proceedings of Affective Computing and Intelligent Interaction*, 2017, pp. 190–195.
[ACII 2017] – **Oral Presentation** –   
- [C1] Chorianopoulou, A., **Tzinis, E.**, Iosif, E., Papoulidi, A., Papailiou, C. and Potamianos, A., “Engagement detection for children with Autism Spectrum Disorder.” In Proceedings of *International Conference of Acoustics, Speech and Signal Processing*, 2017, pp. 5055–5059.
[ICASSP 2017] – **Oral Presentation** –  






















JOURNAL
PUBLICATIONS

- [J4] Wang, Z., Subakan C., Jian, X., Wu, J., **Tzinis, E.**, Ravanelli, M., and Smaragdis, P., “Learning representations for new sound classes with continual self-supervised learning.” To appear in *IEEE Signal Processing Letters*, 2022.
[IEEE SPL 2022] – **2021–2022 IF: 3.109** –   
- [J3] **Tzinis, E.**, Adi Y., Ithapu, V. K., Xu, B., Smaragdis, P., and Kumar, A., “RemixIT: Continual self-training of speech enhancement models via bootstrapped remixing.” In *IEEE Journal on Selected Topics in Signal Processing*, vol. 16, no. 6, pp. 1329–1341, 2022.
[IEEE JSTSP 2022] – **2021–2022 IF: 6.856, Nov 2022 IF: 15.7** –    
- [J2] **Tzinis, E.**, Wang, Z., Jiang, X., and Smaragdis, P., “Compute and memory efficient universal sound source separation.” In *Journal of Signal Processing Systems*, vol. 9, no. 2, pp. 245–259, 2022.
[Springer JSPS 2022] – **Jan 2022 IF: 2.7** –   
- [J1] Katsarou, M.-S.[†], Karathanasopoulou, A.[†], Andrianopoulou, A.[†], Desiniotis, V., **Tzinis, E.**, Lagiou, M., Charmandari, E., Chrousos, G.-P., Drakoulis, N., “Frequency Distribution of β_{1-} , β_{2-} , β_{3-} Adrenergic Receptors Genetic Variants in a Southeastern European Caucasian Population.” In *Frontiers in Genetics*, vol. 9, p. 560, 2018.
[Frontiers Media SA: Genetics 2018] – **2020–2021 IF: 4.274** –   



PATENTS

- [P1] **Tzinis, E.**, Wisdom, S., Jansen, A., and Hershey, J. R., “Audio-Visual Separation of On-Screen Sounds Based on Machine Learning Models.” *U.S. Patent Application Number 17/214186 20220310113 A1.*  












SHORT-TALKS &
ORAL
PRESENTATIONS

- [S12] ***AudioScope V2: Audio-Visual Attention Architectures for Calibrated Open-Domain On-Screen Sound Separation***
– *Conference*, ECCV, Tel-Aviv, Israel, October 2022.  
- [S11] ***Heterogeneous target speech separation***
– *Conference*, Interspeech, Incheon-Seoul, South Korea, September 2022.  
- [S10] ***RemixIT: Continual self-training with bootstrapped remixing for speech enhancement***
– *Conference*, ICASSP, Singapore, May 2022.  
- [S9] ***Unsupervised Federated Learning for Speech Enhancement***
– *Virtual Conference*, WASPAA, October 2021.  
- [S8] ***Into the Wild with AudioScope: Unsupervised Audio-Visual Separation of On-Screen Sounds***
– *Virtual Conference* ICLR, May 2021.  
- [S7] ***Unified Gradient Reweighting for Model Biasing with Applications to Source Separation***
– *Virtual Conference* ICASSP, June 2021.  
- [S6] ***Self-Supervised Audio-Visual Separation of In-the-wild On-Screen Sounds***
– *Virtual* NeurIPS SAS Workshop, Dec 2020. 
– *Virtual* Google AI, Perception Spotlight, Nov 2020. 
- [S5] ***Sudo rm -rf: Efficient Networks for Universal Audio Source Separation***
– *Virtual Workshop* MLSP, Espoo, Finland, Sep 2020.  
- [S4] ***Two-Step Sound Source Separation: Training on Learned Latent Targets***
– *Virtual Conference* ICASSP, Barcelona, Spain, May 2020.  
- [S3] ***Improving Universal Sound Separation Using Sound Classification***
– *Virtual Conference* ICASSP, Barcelona, Spain, May 2020.  
- [S2] ***Unsupervised Deep Clustering for Source Separation: Direct Learning from Mixtures using Spatial Information***
– *Conference* ICASSP, Brighton, UK, May 2019. 
- [S1] ***Manifold Learning and Nonlinear Recurrence Dynamics for Speech Emotion Recognition on Various Timescales***
– *Thesis Defense* NTUA, Athens, Greece, June 2018. 





INVITED TALKS

- [T4] ***Unsupervised uni- and multi-modal sound separation***
– *Virtual*, Amazon Web Services (AWS) Audio group, Aug 2022. 
– *Virtual*, Apple Inc.'s DSP group, Aug 2022.
– *Virtual*, MERL, Aug 2022.
- [T3] ***Self-training & Supervision for Speech Enhancement***
– *Facebook AI*, Speech Meeting, August 2021.
- [T2] ***Improving On-Screen Sound Separation for Open Domain Videos with Audio-Visual Self-Attention***
– *Virtual Workshop* Sight and Sound CVPR, June 2021. 
- [T1] ***Compute and Memory Efficient Neural Networks for Audio Processing***
– *Virtual* Google AI, Sense Reading Group, Nov 2020.  

WORKSHOP
PUBLICATIONS
(NO PROCEEDINGS)

- [W4] **Tzinis, E.**, Wisdom, S., and Hershey, J. R., “Don’t Listen to What You Can’t See: The Importance of Negative Examples for Audio-Visual On-Screen Sound Separation.” In *ECCV Workshop for Visual Learning of Sounds in Spaces*, 2022. [ECCV AV4D 2022] – Poster and Oral Presentation –  
- [W3] **Tzinis, E.**, Wisdom, S., Remez, T., and Hershey, J. R., “Improving On-Screen Sound Separation for Open Domain Videos with Audio-Visual Self-Attention.” In *CVPR Sight and Sound Workshop*, 2021. [CVPR Workshop 2022] – Research Talk –   
- [W2] **Tzinis, E.**, Wisdom, S., Jensen, A., Hershey, S., Remez, T., Ellis, D. P., and Hershey, J. R., “Self-Supervised Audio-Visual Separation of On-Screen Sounds from Unlabeled Video.” In *NeurIPS Workshop for Self-Supervised Learning for Speech and Audio Processing*, 2020. [NeurIPS SAS Workshop 2020] – Oral Presentation –   
- [W1] Wisdom, S., **Tzinis, E.**, Erdogan, H., Weiss, R. J., Wilson, K., and Hershey, J. R., “Unsupervised Speech Separation Using Mixtures of Mixtures.” In *ICML Workshop on Self-supervision in Audio and Speech*, 2020. [ICML Workshop 2020] – Oral Presentation –   

UNDER SUBMISSION
PAPERS &
PRE-PRINTS

- [Z2] **Tzinis, E.**, “Bootstrapped Coordinate Search for Multidimensional Scaling.” *arXiv preprint arXiv:1902.01482* 2019.  
- [Z1] Paraskevopoulos, G. [†], **Tzinis, E.** [†], Vlatakis-Gkaragkounis, E.-V. and A. Potamianos, “Pattern search multidimensional scaling.” Submitted to *Journal of Machine Learning Research (JMLR)*, *IF: 2.450*, 2018.  

[†] The indicated authors contributed equally in each corresponding paper.

ACADEMIC
SERVICE

Area Chair

- International Conference on Machine Learning (ICML) 2022 (declined)

Organizer

- CHiME 2023 - Task 2: Unsupervised Adaptation for Speech Enhancement

Reviewer / Program Committee

- ★ Conferences:
 - Annual Conference on Neural Information Processing Systems *NeurIPS 2021 (outstanding reviewer - top 8%), 2022*
 - International Conference on Learning Representations *ICLR 2022 (highlighted reviewer - top 8.8%)*
 - International Conference of Acoustics, Speech and Signal Processing *ICASSP 2021, 2022, 2023*
 - International Conference on Machine Learning *ICML 2022 (top reviewer - top 10%), 2023*
 - IEEE Workshop on Applications of Signal Processing to Audio and Acoustics *WASPAA 2021*

- * Journals:
 - IEEE/ACM, Transactions on Audio, Speech and Language Processing (*IEEE/ACM TASLP*) 2020–Present
 - IEEE, Signal Processing Letters (*IEEE SPL*) 2022–Present
 - Elsevier, Neurocomputing 2023–Present
 - Oxford University Press, The Computer Journal 2022–Present
 - Wiley, The Computational Intelligence 2023–Present
- * Workshops:
 - Workshop on Self-supervised Learning for Speech and Audio Processing *AAAI 2022*
 - Workshop on Detection and Classification of Acoustic Scenes and Events *DCASE 2021*

UNIVERSITY
SERVICE
APPOINTMENTS

Research Assistant at the UIUC

- Generalizing federated learning to non-IID cases Spring 2022
- Self-supervision in separation Fall 2021
- Deploy low-cost sound separation models into-the-wild Spring 2020
- Exploring deep priors for blind source separation Fall 2019
- Deep mask inference for source separation Spring 2019
- Unsupervised source separation using deep clustering Fall 2018

Teaching Assistant at the UIUC

- CS 446 / ECE 449 Machine Learning Spring 2021
- CS 598 Machine Learning for Signal Processing Fall 2020

Lab Assistant at the NTUA

- Natural Language & Speech Processing Fall 2017
- Pattern Recognition Fall 2017

Teaching Assistant at the NTUA

- Signals & Systems Fall 2017

OTHER
TEACHING
EXPERIENCE

Private Tutor, Athens, Greece

- 2013 - 2017
- Maths, Physics, Programming and Circuits
- Preparation of high school students for national qualification exams
- Volunteer for social educational school of Athens (students in financial need)
- Algorithms, C programming, Differential Analysis
- Giving lectures and tutoring undergraduate students for their exams

STUDENT
MENTORING

- Dean Biskup** (MSc UIUC) Summer 2021 - Summer 2022
- Federated learning for source separation
- Xilin Jiang** (BSc UIUC) Fall 2020 - Summer 2022
- Efficient Audio Source Separation
- Unsupervised domain adaptation for source separation
- Dimitrios Bralios** (BSc/MEng NTUA - Visiting Student UIUC) Fall 2020 - Summer 2021
- Model Biasing with Unified Gradient Reweighting
- Zhongweiyang Xu** (BSc UIUC) Fall 2020
- Self-Supervised Audio Source Separation
- Sacha Jungerman** (BSc UIUC) Fall 2019
- Graph-based Representations of Sounds

| | | |
|-----------------------------------|---|---|
| PROGRAMMING SKILLS | Languages (Excellent): Languages (Good): Languages (Familiar with): Operating Systems: Auto-differentiation Frameworks: Agile Development: | Python, C, Unix Bash C++, Matlab, and SQL Java, C#, ML and Assembly (80x86,AVR) Linux, MacOS, Windows Pytorch, TensorFlow, Keras Git, JIRA, Jenkins, Scrum, Kanban Board |
| LANGUAGES | Greek (Native), English (Fluent) | |
| AFFILIATIONS | IEEE - Member IEEE Signal Processing Society - Member Hellenic Student Association at the UIUC - President | 2016 - Present 2017 - Present 2018 - 2019 |
| OTHER INTERESTS | Soccer, Beach rackets, Guitar, Singing, Traveling | |
| REFERENCES AVAILABLE UPON REQUEST | Paris Smaragdis John R. Hershey Scott Wisdom Jonathan Le Roux Gordon Wichern Alexandros Potamianos Tal Remez | Professor, UIUC 🎓 Research Scientist, Google 🎓 Research Scientist, Google 🎓 Senior Team Leader, MERL 🎓 Senior Principal Research Scientist, MERL 🎓 Associate Professor, NTUA 🎓 Research Scientist, Meta AI Research 🎓 |

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