



	<b>National Technical University of Athens</b> , Athens, Greece Computer Vision, Speech Communication and Signal Processing Group (CVSP) <i>Undergraduate Research Assistant</i> Feb 2015 to Mar 2016 Supervisor: Prof. Petros Maragos <ul style="list-style-type: none"> <li>• Explored the Teager-Kaiser energy operator for energy estimation in speech signals.</li> <li>• Developed a system for single-microphone distant speech recognition, comparing various acoustic feature sets, with an emphasis on those based on the AM-FM speech model.</li> </ul>	
SOFTWARE SKILLS	<b>Programming Languages:</b> Python, UNIX shell scripting, MATLAB, C, R  <b>Tools &amp; Libraries:</b> Tensorflow, PyTorch, Kaldi, OpenFST, SRILM, L <sup>A</sup> T <sub>E</sub> X	
GRADUATE COURSEWORK	Multimodal Probabilistic Learning of Human Communication, Advanced Natural Language Processing, Law and Intellectual Property, Computational Social Sciences, Mathematics of High-Dimensional Data, Machine Learning Theory, Deep Learning, Machine Learning from Signals, Pattern Recognition, Statistics, Probability, Random Processes, Analysis of Algorithms	
TEACHING EXPERIENCE	<b>University of Southern California</b> , Los Angeles, CA, U.S.A. <i>Teaching Assistant</i> Spring 2019, 2020 & 2021 Speech Recognition and Processing for Multimedia  <b>Society of Astronomy and Space</b> , Volos, Greece <i>Teaching Assistant</i> Summer 2011 & 2012 Preparation for the International Olympiad on Astronomy and Astrophysics	
HONORS AND AWARDS	<b>Myronis Endowed Ph.D. Fellowship</b> Aug 2021 to May 2022 University of Southern California  <b>Annenberg Ph.D. Fellowship</b> Aug 2016 to Aug 2020 University of Southern California  <b>Phi Kappa Phi</b> initiation: May 2020 Member (academic honor society)  <b>Gerontelis Graduate Studies Scholarship</b> Apr 2020 Gerontelis Foundation  <b>Travel Grant</b> Sep 2018 International Speech Communication Association (ISCA)  <b>Honorable Mention</b> Sep 2010 4th International Olympiad on Astronomy and Astrophysics	
JOURNAL PUBLICATIONS	<ol style="list-style-type: none"> <li>1. Z. Chen, <b>N. Flemotomos</b>, K. Singla, T.A. Creed, D.C. Atkins, and S. Narayanan, “An Automated Quality Evaluation Framework of Psychotherapy Conversations with Local Quality Estimates” (<i>under review</i>).</li> <li>2. <b>N. Flemotomos</b>, V.R. Martinez, Z. Chen, T.A. Creed, D.C. Atkins, and S. Narayanan, “Automated Quality Assessment of Cognitive Behavioral Therapy Sessions Through Highly Contextualized Language Representations”, <i>PLOS ONE</i>, 2021.</li> <li>3. <b>N. Flemotomos</b>, V.R. Martinez, Z. Chen, K. Singla, V. Ardulov, R. Peri, D. Caperton, J. Gibson, M.J. Tanana, P. Georgiou, J. Van Epps, S.P. Lord, T. Hirsch., Z.E. Imel, D.C. Atkins, and S. Narayanan. “Automated Evaluation of Psychotherapy Skills Using Speech and Language Technologies”, <i>Behavior Research Methods</i>, 2021.</li> </ol>	

	<ol style="list-style-type: none"> <li>4. S.B. Goldberg, <b>N. Flemotomos</b>, V.R. Martinez, M. Tanana, P. Kuo, B.T. Pace, J.L. Villatte, P. Georgiou, J. Van Epps, Z.E. Imel, S. Narayanan, and D.C. Atkins. “Machine Learning and Natural Language Processing in Psychotherapy Research: Alliance as Example Use Case”, <i>Journal of Counseling Psychology</i>, 2020.</li> </ol>
PEER REVIEWED CONFERENCE & WORKSHOP PROCEEDINGS	<ol style="list-style-type: none"> <li>1. Z. Chen, <b>N. Flemotomos</b>, V. Ardulov, T.A. Creed, Z.E. Imel, D.C. Atkins, and S. Narayanan. “Feature Fusion Strategies for End-to-End Evaluation of Cognitive Behavior Therapy Sessions”, <i>EMBC</i>, 2021.</li> <li>2. <b>N. Flemotomos</b>, P. Georgiou, and S. Narayanan. “Linguistically Aided Speaker Diarization Using Speaker Role Information”, <i>Odyssey</i>, 2020. <b>Best Student Paper Finalist</b></li> <li>3. <b>N. Flemotomos</b> and D. Dimitriadis. “A Memory Augmented Architecture for Continuous Speaker Identification in Meetings”, <i>ICASSP</i>, 2020.</li> <li>4. T.J. Park, M. Kumar, <b>N. Flemotomos</b>, M. Pal, R. Peri, R. Lahiri, P. Georgiou, and S. Narayanan. “The Second DIHARD Challenge: System Description for USC-SAIL Team”, <i>Interspeech</i>, 2019</li> <li>5. V.R. Martinez, <b>N. Flemotomos</b>, V. Ardulov, K. Somandepalli, S.B. Goldberg, Z.E. Imel, D.C. Atkins, and S. Narayanan. “Identifying Therapist and Client Personae for Therapeutic Alliance Estimation”, <i>Interspeech</i>, 2019.</li> <li>6. <b>N. Flemotomos</b>, P. Georgiou, D.C. Atkins, and S. Narayanan, “Role Specific Lattice Rescoring for Speaker Role Recognition from Speech Recognition Outputs”, <i>ICASSP</i>, 2019.</li> <li>7. <b>N. Flemotomos</b>, Z. Chen, D.C. Atkins, and S. Narayanan, “Role Annotated Speech Recognition for Conversational Interactions”, <i>SLT</i>, 2018.</li> <li>8. <b>N. Flemotomos</b>, P. Papadopoulos, J. Gibson, and S. Narayanan, “Combined Speaker Clustering and Role Recognition in Conversational Speech”, <i>Interspeech</i>, 2018.</li> <li>9. <b>N. Flemotomos</b>, V.R. Martinez, J. Gibson, D.C. Atkins, T.A. Creed, and S. Narayanan, “Language Features for Automated Evaluation of Cognitive Behavior Psychotherapy Sessions”, <i>Interspeech</i>, 2018.</li> <li>10. K. Singla, Z. Chen, <b>N. Flemotomos</b>, J. Gibson, D. Can, D.C. Atkins, and S. Narayanan, “Using Prosodic and Lexical Information for Learning Utterance-level Behaviors in Psychotherapy”, <i>Interspeech</i>, 2018.</li> </ol>
INVITED TALKS	<ol style="list-style-type: none"> <li>1. <b>Alberta Hospital Edmonton/University of Alberta</b> Sep 2021 Forensic Grand Rounds <i>Towards Automated Large-Scale Evaluation of Psychotherapy</i></li> <li>2. <b>University of Southern California</b> Apr 2021 Interaction Lab <i>Who Spoke When? and how speaker roles can help us find the answer</i></li> </ol>
REVIEWER	<p><b>Journals:</b> Applied Artificial Intelligence, PLOS ONE, Cogent Psychology, Behavior Research Methods</p> <p><b>Conferences:</b> Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)</p>
SERVICE AND VOLUNTARY WORK	<p><b>USC Behavioral Science Society</b> Student executive board member Dec 2020 to present</p> <p><b>Hellenic Student Association of USC</b> Student volunteer and board member Jan 2018 to May 2019</p> <p><b>IEEE Engineering in Medicine &amp; Biology Society NTUA Student Chapter</b> President Sep 2014 to Jun 2015 Student volunteer Sep 2013 to Jun 2014</p>