

in the area of “Decision making for Ambient Intelligence Environments”  
under the supervision of Prof. Daphney-Stavroula Zois, IMAGINE Lab, Department of  
Computer Engineering, University at Albany, SUNY

**Our lab:** The decision Making for Ambient Intelligence Environments (IMAGINE) lab at the Department of Computer Engineering in the University at Albany, SUNY is conducting cutting-edge research in the intersection of machine learning, signal processing, communications and control. Our research interests lie on the development and deployment of information-gathering algorithms that arrive at good decisions while satisfying various types of constraints (e.g., energy, time, complexity, noisy or missing data, proprietary data). We work on a variety of interdisciplinary and innovative applications including but not limited to e-health (e.g., energy-efficient physical activity detection for obesity prevention, emotion change detection for sleep disorder tracking, oral health tracking), smart home (e.g., personalized temperature control), smart cities (e.g., smart facilities management), environment & agriculture (e.g., smart farming), intelligent transportation (e.g., active collision detection in freeways), and active object detection for computer vision applications. Our vision is to enable intelligent surroundings by continuous and resource-efficient sensing, inference and decision-making that adapts to information learned from unknown and uncertain environments.

**Life in Albany:** Albany is a place of history, culture and beauty. It is also the capital of New York, the nanotechnology center of the world and home to many Fortune 500 companies. One of the Best College Towns in America, Albany has also won the All-America City Award twice. An affordable city, Albany has all the services and attractions of a major urban center. Albany is just a few hours away from some of the most important cities (New York City, Boston, Philadelphia, Washington, D.C., Montreal, Toronto) and popular destinations (Niagara Falls, Adirondack Mountains, Berkshire Mountains, Howe Caverns) in the United States and Canada.

**Candidate Profile:** We are looking for highly motivated students (senior undergraduate or MS students) to join our lab and pursue a PhD degree. A background in machine learning, signal processing, stochastic control, communications, or other related field is preferred.

**How to apply:** Interested candidates should contact Prof. Daphney-Stavroula Zois ([dzois@albany.edu](mailto:dzois@albany.edu)) and include a cover letter and a curriculum vitae (CV). Ph.D. Positions are fully funded. Candidates are strongly encouraged to **get in touch as soon as possible**.

**Further Information:** Please feel free to contact Prof. Daphney-Stavroula Zois ([dzois@albany.edu](mailto:dzois@albany.edu)) for any questions you may have. Further information is available at:

- IMAGINE Lab: <http://www.albany.edu/~dz973423/Imagine-Lab-index.html>
- Departmental webpage: <http://www.albany.edu/ceas/73117.php>
- Personal webpage: <http://www.albany.edu/~dz973423/>
- Computer Engineering Department: <http://www.albany.edu/computerengineering/>