

BHANU TEJA GULLAPALLI

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EDUCATION

University of Massachusetts, Amherst <i>PhD in Computer Science (advised by Prof. Tauhidur Rahman)</i>	Sept '18 - Present
University of Massachusetts, Amherst <i>MS in Computer Science</i>	Feb '17 - Sept '18 CGPA-3.95/4.0
Indian Institute of Technology, Guwahati <i>Bachelor of Technology in Computer Science</i>	July '11 - May '15 CGPA-7.81/10.0

RESEARCH INTERESTS

- Wearable Health Sensing
- Mobile Health Systems
- Machine Learning

PAPERS

- On-body Sensing of Cocaine Craving, Euphoria and Drug-Seeking Behavior Using Cardiac and Respiratory Signals
Gullapalli, B.T., Natarajan, A., Angarita, G.A., Malison, R.T., Ganesan, D. and Rahman, T
UBICOMP 2019
- A new hierarchical clustering algorithm to identify non-overlapping like-minded communities
Deepak, T.S., Adhya, H., Kejriwal, S., **Gullapalli, B.** and Shannigrahi, S.,
HT 16

INDUSTRY EXPERIENCE

Samsung R&D Institute, Bangalore, India <i>Worked in the Video Editor team of Samsung Camera.</i>	Jul '15 - Dec '16 Bangalore, India
Samsung R&D Institute, Bangalore, India <i>Developed a networking protocol for Samsung OS - Tizen.</i>	May '14 - Aug '14 Bangalore, India

KEY RESEARCH PROJECTS

Opioid administration using wearable biosensors <i>Detecting opioid administration using physiological signals obtained from smartwatch of the subjects admitted to the emergency department using a Temporal convolution network (TCN) based architecture.</i>	Jul '19 - Present
Sensing Cocaine Craving, Euphoria and Drug-Seeking Behavior Using Cardiac and Respiratory Signals <i>Built a system that can understand and predict key variables of the addiction loop using ECG and the the respiratory signal obtained from a wearable chest band.</i>	Apr '18 - Feb '19
Drug Target prediction using Deep Representation Learning <i>Using graph convolution and attention mechanism, built an interpretable system which can identify proteins affected by a drug.</i>	Jan '18 - Apr '18
Tree-Structured Detector Cascade <i>Developed a novel way to grow and find the optimal configuration of a tree-structured cascade and applied it to smoking detection.</i>	May '17 - Aug '17

¹Use URL bhanutejagullapalli.github.io in case hyperlinks don't work

ACHIEVEMENTS

- Received Spot Award in Samsung R&D Institute Bangalore for providing good solutions and coding skills
- Won the first prize at Samsung R&D Institute Bangalore tech-fair for developing a location-based filter for Samsung video editor.
- Listed among top 0.3% students of 0.5 million appearing in [Joint Entrance Exam, IIT-JEE](#) 2011
- Secured 961 rank in All India Engineering Entrance Exam ([AIEEE](#)) 2011 taken by 1.2 million people.