

# BHANU TEJA GULLAPALLI

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## EDUCATION

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

## RESEARCH INTERESTS

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- Wearable Health Sensing
- Mobile Health Systems
- Machine Learning

## PAPERS

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- 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

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

## KEY RESEARCH PROJECTS

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<b>Opioid administration using wearable biosensors</b> <i>Detecting physiological changes in the subjects admitted to the emergency room after opioid administration.</i>	Sep '19 - Present
<b>Sensing Cocaine Craving, Euphoria and Drug-Seeking Behavior Using Cardiac and Respiratory Signals</b> <i>Built a system which can understand and predict key variables of the addiction loop using ECG and the respiratory signal obtained from a wearable chest band.</i>	Apr '18 - Feb '19
<b>Drug Target prediction using Deep Representation Learning</b> <i>Using graph convolution and attention mechanism, built an interpretable system which can identify proteins affected by a drug.</i>	Jan '18 - Apr '18
<b>Tree-Structured Detector Cascade</b> <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

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<sup>1</sup>Use URL [bhanutejagullapalli.github.io](https://bhanutejagullapalli.github.io) in case hyperlinks don't work

## ACHIEVEMENTS

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- 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.