

# HYUNSU KONG

## Curriculum Vitae

### CONTACT INFORMATION

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Department of Physics  
The University of Texas at Austin  
2515 Speedway, C1600, Austin, TX, 78712

hyunsukong@utexas.edu  
+1 (512) 925 3372

### EDUCATION

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<b>Ph.D. in Physics, The University of Texas at Austin</b>	2018 - present
Advisor: Michael Boylan-Kolchin	
<b>B.S. in Physics, The University of Texas at Austin</b>	2014 - 2017
<b>A.S. in Physics, Houston Community College</b>	2009 - 2011
Highest Honors	

### APPOINTMENTS

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<b>Graduate Research Assistant, The University of Texas at Austin</b>	2019 - present
<b>Full-time Research Assistant - Visiting Scholar, The University of Texas at Austin</b>	2017 - 2018
Supervisor: Paul Shapiro	
<b>Undergraduate Research Assistant, The University of Texas at Austin</b>	2016 - 2017

### RESEARCH INTERESTS

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- Quantifying the evolution of properties of low-mass dark matter halos
- Characterizing the tidal effects of the central galaxy on subhalos
- Observational predictions for dark matter substructure detection
- The nature of dark matter
- Numerical simulations

### TALKS AND PRESENTATIONS

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*Evolution of Dark Substructures in Milky-Way-Mass Dark Matter Halos, Galaxies and Cosmology*  
Seminar, The University of Texas at Austin, Austin, TX, October 26, 2020

### TEACHING EXPERIENCE

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<b>Teaching Assistant, The University of Texas at Austin</b>	2018 - 2019
Physics Laboratory I - Mechanics	
<b>Undergraduate Learning Assistant, The University of Texas at Austin</b>	2015 - 2017
Courses in Department of Physics: Waves and Optics, Modern Physics, Modern Physics Laboratory	
Courses in Department of Mathematics: Differential Calculus, Integral Calculus, Differential & Integral Calculus for Sciences	2015 - 2017

## **HONORS & AWARDS**

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Carol May and James C. Thompson Scholarship in Physics for Distinguished Academic Achievements, The University of Texas at Austin	Spring 2017
Walter E. Millet Undergraduate Scholarship in Physics for Distinguished Academic Achievements, The University of Texas at Austin	Fall 2015 & Spring 2016

## **OTHER WORK EXPERIENCE**

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Republic of Korea Army, Sergeant	January 2012 - October 2013
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## **TECHNICAL SKILLS**

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Proficient in Python2/Python3, Fortran90, Bash, Linux Systems

Proficient in High-Performance Computing: Stampede 2, The University of Texas at Austin TACC; Titan, Oak Ridge National Laboratory