

Kraig J. Andrews

CONTACT INFORMATION	666 West Hancock Street Detroit, MI 48201	+1 248-798-9388 kraig.andrews@wayne.edu
EDUCATION	Wayne State University , Detroit, MI Ph.D., Physics, <i>Expected</i> : Fall 2018, GPA: 3.50/4.00 <ul style="list-style-type: none">• Thesis Topic: “Intrinsic Channel Properties, Scattering Mechanisms, and Quantum Transport Properties in Transition Metal Dichalcogenides”• Advisor: Zhixian Zhou, Ph.D Michigan State University , East Lansing, MI B.S., Physics, May 2014, GPA: 3.25/4.00 B.S., Astrophysics, May 2014	
RESEARCH EXPERIENCE	Graduate Research Assistant Nano Fabrication and Electron Transport Laboratory, Department of Physics and Astronomy, Wayne State University Supervisor: Zhixian Zhou, Ph.D.	May 2015–Present
	Undergraduate Research Assistant Neutron Star Evolution and Developmental Limits, Department of Astronomy, Michigan State University Supervisor: Edward Brown, Ph.D	Feb 2013–Dec 2013
	Undergraduate Research Assistant High Resolution Array Group (HIRA): SAMURAI-TPC Project National Superconducting Cyclotron Laboratory, Michigan State University Supervisors: William Lynch, Ph.D and Betty Tsang, Ph.D.	May 2012–Jan 2013
PUBLICATIONS	1. Chamlagain, B., Perera, M., Chuang, H.J., Bowman, A., Rijal, U., Andrews, K. , Klesko, J., Winter, C., Zhou, Z. “Substrate dependence of Hall and Field-effect mobilities in few-layer MoS ₂ field-effect transistors.” <i>Manuscript in preperation</i> , 2016.	
TEACHING EXPERIENCE	Teaching Assistant PHY 2130 - General Physics I Instructor: Karur Padmanabhan, Ph.D. Wayne State University	Fall 2015
	Teaching Assistant PHY 2131 - General Physics Laboratory I Instructor: Xiang-Qiang Chu, Ph.D. Wayne State University	Summer 2015
	Teaching Assistant AST 2010 - Descriptive Astronomy Laboratory Instructor: Edward Cackett, Ph.D Wayne State University	Fall 2014–Winter 2015

Teaching Assistant	Winter 2014
PHY 0232 - Introductory Physics II	
Instructor: Stuart Tessmer, Ph.D	
Michigan State University	
Teaching Assistant	Winter 2013
AST 0208 - Planets and Telescopes	
Instructor: Edward Loh, Ph.D	
Michigan State University	
Teaching Assistant	Fall 2013
PHY 0231 - Introductory Physics I	
Instructor: Tibor Nagy, Ph.D	
Michigan State University	
Teaching Assistant	Winter 2012
PHY 0232 - Introductory Physics II	
Instructor: Stuart Tessmer, Ph.D	
Michigan State University	

HARDWARE AND SOFTWARE SKILLS Fabrication, Data Acquisition, Testing, and Measurement:

- LabView, Atomic Force Microscopy (AFM), Electron Beam Lithography, Photolithography, Computer-Aided Design (CAD), Scanning Electron Microscopy (SEM), and others

Computer Programming:

- C, C++, Fortran, GNU make, MATLAB, Mathematica, Python, UNIX shell scripting, and Visual Basic

Operating Systems:

- Microsoft Windows family, Apple OS X, Linux OS

Desktop Editing:

- \LaTeX (\LaTeX , \BibTeX)
- Microsoft Office, OpenOffice, LibreOffice
- GIMP, InkScape

RELEVANT GRADUATE COURSEWORK

- Advanced Quantum Mechanics I & II
- Survey of Condensed Matter Physics
- Statistical Mechanics
- Electrodynamics
- Thermal Physics