UNIVERSITY OF CALIFORNIA, IRVINE
DEPARTMENT OF PHYSICS AND ASTRONOMY
Irvine, California 92697-4575
http://www.physics.uci.edu/

General University Information
Chancellor: Howard Gillman
Dean of Graduate School: Frances Leslie
University website: http://www.uci.edu/
School Type: Public
Setting: Urban
Total Faculty: 2,407
Total number of Students: 36,032
Total number of Graduate Students: 6,296

Department Information
Department Chair: Prof. Timothy Tait, Chair
Department Contact: My Banh, Graduate Affairs Officer
Total full-time faculty: 50
Full-Time Graduate Students: 154
Female Full-Time Graduate Students: 43
First-Year Graduate Students: 35
Female First-Year Students: 15
Total Post Doctorates: 31
Department Address
4129 Frederick Reines Hall
Irvine, CA 92697-4575
Phone: (949) 824-6911
Fax: (949) 824-2174
E-mail: physics@uci.edu
Website: http://www.physics.uci.edu/

ADMISSIONS

Application deadlines
Fall admission:
U.S. students: January 1
Int’l. students: January 1
Application fee
U.S. students: $120
Int’l. students: $140
Admissions information
For Fall of 2019:
Number of applicants: 431
Number admitted: 84
Number enrolled: 35

Admission requirements
Bachelor’s degree requirements: A Bachelor’s degree is required.
Minimum undergraduate GPA: 3.0

GRE requirements
The GRE is required.
In the admissions process, we look at the complete file of students, with particular emphasis on undergraduate grades, especially in subject-related courses, research experience, letters of recommendation, and GRE score.

GRE Physics requirements
The GRE Physics is not required.
In the admissions process, we look at the complete file of students, with particular emphasis on undergraduate grades, especially in subject-related courses, research experience, letters of recommendation, and GRE score.

TOEFL requirements
The TOEFL exam is required for students from non-English-speaking countries.
Minimum accepted TOEFL scores:
PBT score: 550
iBT score: 80

International Student applicants are required to be eligible to serve as teaching assistants. Students with a score of 26 or higher on the Speaking component of the TOEFL iBT or a score of 8 or higher on the Speaking module of the IELTS are eligible to serve as teaching assistants.

Other admissions information
Additional requirements: No minimum scores on the General GRE and Physics GRE are specified.
Undergraduate preparation assumed: The following texts (or their equivalents): Halliday & Resnick, General Physics; Marion, Mechanics; Griffiths, E and M; Liboff, Quantum Mechanics; Reif, Thermal and Statistical Physics; Arfken, Mathematics for Physics; and advanced undergraduate laboratory.

TUITION AND ASSISTANTSHIPS

Teaching Assistants, Research Assistants, and Fellowships
Number of first-year
Teaching Assistants: 32
Research Assistants: 3
Fellowship students: 18
Average stipend per academic year
Teaching Assistant: $21,272.98
Research Assistant: $20,794.5

Tuition year 2018–2019:
Tuition for in-state residents
Full-time students: $17,385.63 annual
Part-time students: $11,664.63 annual
Tuition for out-of-state residents
Full-time students: $32,487.63 annual
Part-time students: $19,215.63 annual
Credit hours per semester to be considered full-time: 12
Deferred tuition plan: No
Health insurance: Yes, 4042.00.

FINANCIAL AID

Application deadlines
Fall admission:
U.S. students: March 2
Loans
Loans are available for U.S. students.
Loans are not available for international students.
GAPSFAS application required: No
FAFSA application required: Yes
California

For further information
Address financial aid inquiries to: Financial Aid and Scholarships
Office, 102 Aldrich Hall, Irvine, CA 92697-2825.
Phone: (949) 824-8262
E-mail: finaid@uci.edu
Financial aid website: http://www.ofas.uci.edu

Housing
Availability of on-campus housing
Single students: Yes
Married students: Yes
Childcare Assistance: Yes

For further information
Address housing inquiries to: Student Housing Services, G458
Student Center, Irvine, CA 92697-5225.
Phone: (949) 824-6811
E-mail: housing@uci.edu
Housing aid website: http://www.housing.uci.edu

Table A—Faculty, Enrollments, and Degrees Granted

<table>
<thead>
<tr>
<th>Research Specialty</th>
<th>Master’s</th>
<th>Doctorate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astrophysics</td>
<td>13</td>
<td>34</td>
<td>47</td>
</tr>
<tr>
<td>Atmosphere, Space</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics, Cosmic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rays</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biophysics</td>
<td>2</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Chemical Physics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Condensed Matter</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics</td>
<td>15</td>
<td>27</td>
<td>42</td>
</tr>
<tr>
<td>Medical, Health Physics</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Particles and Fields</td>
<td>14</td>
<td>42</td>
<td>56</td>
</tr>
<tr>
<td>Plasma and Fusion</td>
<td>5</td>
<td>17</td>
<td>22</td>
</tr>
</tbody>
</table>

Total: 49 – 155 18(73) –(22) 19(102)

Full-time Grad. Stud. – 154 – –
First-year Grad. Stud. – 35 – –

Table B—Separately Budgeted Research Expenditures by Source of Support

<table>
<thead>
<tr>
<th>Source of Support</th>
<th>Departmental Research</th>
<th>Physics-related Research</th>
<th>Outside Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal government</td>
<td>$8,538,356.7</td>
<td>$6,000,000</td>
<td></td>
</tr>
<tr>
<td>State/local government</td>
<td>$993,409.35</td>
<td>$993,409.35</td>
<td></td>
</tr>
<tr>
<td>Non-profit organizations</td>
<td>$2,210,954.24</td>
<td>$2,210,954.24</td>
<td></td>
</tr>
<tr>
<td>Business and industry</td>
<td>$4,921,649.46</td>
<td>$4,921,649.46</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total: $14,453,415.51

Table C—Separately Budgeted Research Expenditures by Research Specialty

<table>
<thead>
<tr>
<th>Research Specialty</th>
<th>No. of Grants</th>
<th>Expenditures ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astrophysics</td>
<td>101</td>
<td>$1,995,916.87</td>
</tr>
<tr>
<td>Biophysics</td>
<td>36</td>
<td>$1,437,273.23</td>
</tr>
<tr>
<td>Condensed Matter Physics</td>
<td>78</td>
<td>$4,782,227.46</td>
</tr>
<tr>
<td>Particles and Fields</td>
<td>65</td>
<td>$4,027,043.71</td>
</tr>
<tr>
<td>Plasma and Fusion</td>
<td>25</td>
<td>$2,210,954.24</td>
</tr>
<tr>
<td>Total</td>
<td>305</td>
<td>$14,453,415.51</td>
</tr>
</tbody>
</table>

FACULTY

Distinguished University Professor


Professor


Barth, Aaron, Ph.D., University of California, Berkeley, 1998. Astrophysics. Observational astrophysics. Supermassive black holes, quasars and active galactic nuclei.


United States: Geographic Listing of Graduate Programs

California

Bullock, James, Ph.D., University of California, Santa Cruz, 1999. Department Chair of Physics & Astronomy. *Astrophysics*. Theoretical cosmology; astrophysics; astronomy. Galaxy formation theory and simulations, dark matter, near-field cosmology.


Kaplinghat, Manoj, Ph.D., Ohio State University, 1999. *Astrophysics*. Theoretical cosmology; astrophysics. Dark matter, dark energy, gravitational lensing, and near-field cosmology.


McWilliams, Roger D., Ph.D., Princeton University, 1980. Associate Dean of the School of Physical Sciences and Professor of Physics & Astronomy. *Plasma and Fusion*. Experimental plasma physics.


Associate Professor


Assistant Professor


Robertson, Paul M., Ph.D., University of Texas, Austin, 2013. *Astrophysics*. His current research focuses on the development of the Habitability Zone Planet Finder and NEID instruments, and continuing a detailed study of stellar activity for old, low-mass stars. These research avenues together advance his overall goal of finding potentially habitable exoplanets around nearby stars.


Emeritus

Benford, Gregory, Ph.D., UC San Diego, 1967. *Plasma and Fusion*.


Hamber, Herbert, Ph.D., University of California, Santa Barbara, 1980. Particles and Fields. Elementary particle theory; general relativity.


Lawrence, Jon, Ph.D., University of Rochester. Condensed Matter Physics. Experimental condensed matter physics.


Research Professor


Adjunct Faculty


Vagins, Mark, Ph.D., Yale University, 1994. Experimental particle physics.

Lecturer

Guerra, Arnold, Ph.D., UC Irvine, 1999.

Kirkby, Anne, Ph.D., Theoretical Physics California Institute of Technology.

Tajima, Fumiko, Ph.D., University of Tokyo, 1983.

Joint Appointment


Gross, Steven, Ph.D., University of Texas, Austin, 1995. Biophysics, Medical, Health Physics. Experimental biological physics.


Plasma and Fusion. Relativistic electron beams; fast ion dynamics; plasma waves and turbulence; collective accelerators.

Barty, Benford, Liu Chen, Dollar, Heidbrink, Lin, McWilliams, Toshiki Tajima.

View additional information about this department at www.gradschoolshopper.com. Check out the “Why Choose Us?” section, find out more about the department’s culture and get links to social media networks.