General University Information

President: Havidan Rodriguez
Dean of Graduate School: Kevin Williams
University website: http://www.albany.edu

School Type: Public
Setting: Suburban
Total Faculty: 1,000
Total number of Students: 17,040
Total number of Graduate Students: 4,936

Department Information

Department Chairman: Prof. Keith Earle, Chair
Department Contact: Keith Earle, Chair
Total full-time faculty: 16
Total number of full-time equivalent positions: 3
Full-Time Graduate Students: 46
Female Full-Time Graduate Students: 5
First-Year Graduate Students: 7
Female First-Year Students: 2
Total Post Doctorates: 1

Department Address
Physics 216
1400 Washington Avenue
Albany, NY 12222
Phone: (518) 442-4501
Fax: (518) 442-5260
E-mail: Physics@albany.edu
Website: http://www.albany.edu/physics

ADMISSIONS

Admission Contact Information
Address admission inquiries to: Paul LaBate, Physics 216, Albany, NY 12222
Phone: (518) 442-4501
E-mail: physics@albany.edu
Admissions website: http://www.albany.edu/graduate/graduate-admissions.php

Application deadlines
Fall admission:
U.S. students: February 15
Int’l. students: February 15
Spring admission:
U.S. students: November 15
Int’l. students: November 15

Application fee
U.S. students: $75
Int’l. students: $75

Admissions information
For Fall of 2018:
Number of applicants: 120
Number admitted: 17
Number enrolled: 15

Admission requirements
Bachelor’s degree requirements: A bachelor’s degree in Physics or a related field is required.

GRE requirements
The GRE is not required.

Subjective GRE requirements
The Subjective GRE is not required.

TOEFL requirements
The TOEFL exam is required for students from non-English-speaking countries.
PBT score: 600
iBT score: 100
The minimum accepted computer-based exam (CBT) score is 250.

Other admissions information
Additional requirements: GPA, GRE, letters of recommendation, and research alignment with faculty specializations are all considered for admission.
Undergraduate preparation assumed: Symon, Mechanics; Griffiths, Introduction to Electrodynamics; Griffiths, Quantum Mechanics.

TUITION

Tuition year 2018–19:
Tuition for in-state residents
Full-time students: $11,090 annual
Part-time students: $462 per credit
Tuition for out-of-state residents
Full-time students: $22,650 annual
Part-time students: $944 per credit
Credit hours per semester to be considered full-time: 12
Deferred tuition plan: No
Health insurance: Available at the cost of $1,174 per year.
Other academic fees: $75 application fee. $250 enrollment deposit. Various university fees.
Number of first-year students who received full tuition waivers: 9

Teaching Assistants, Research Assistants, and Fellowships
Number of first-year Teaching Assistants: 9
Average stipend per academic year Teaching Assistant: $18,500

FINANCIAL AID

Application deadlines
Fall admission:
U.S. students: February 15
Int’l. students: February 15
Spring admission:
U.S. students: November 15
Int’l. students: November 15

Loans
Loans are available for U.S. students.
Loans are not available for international students.
GAPSFAS application required: No
FAFSA application required: Yes

For further information
Address financial aid inquiries to: Student Financial Center, Campus Center G-26, 1400 Washington Avenue, Albany, NY 12222.
Phone: (518) 442-3202
E-mail: sfc@albany.edu
Financial aid website: http://www.albany.edu/studentservices
**New York**

**HOUSING**

**Availability of on-campus housing**

*Single students:* No  
*Married students:* No  
*Childcare Assistance:* No

**For further information**

*Address housing inquiries to:* Residential Life, State University of New York at Albany, State Quad U-Lounge, 1400 Washington Avenue, Albany, NY 12222.  
*Phone:* (518) 442-5875  
*E-mail:* reslife@albany.edu  
*Housing aid website:* [http://www.albany.edu/housing/index.shtml](http://www.albany.edu/housing/index.shtml)

**Table A—Faculty, Enrollments, and Degrees Granted**

<table>
<thead>
<tr>
<th>Research Specialty</th>
<th>Faculty</th>
<th>2018–19</th>
<th>2017–18</th>
<th>2018–19</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2018 Fall</td>
<td>Enrollment</td>
<td>2017–18</td>
<td>Number of Degrees</td>
</tr>
<tr>
<td></td>
<td>Master’s</td>
<td>2018–19</td>
<td>Terminal</td>
<td>Doctorate</td>
</tr>
<tr>
<td></td>
<td>Doctorate</td>
<td>2017–18</td>
<td>Doctorate</td>
<td>2018–19</td>
</tr>
<tr>
<td>Biophysics</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Computational Physics</td>
<td>1</td>
<td>1</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Condensed Matter Physics</td>
<td></td>
<td></td>
<td></td>
<td>(3)</td>
</tr>
<tr>
<td>Optics</td>
<td>3</td>
<td>2</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>Particles and Fields</td>
<td>3</td>
<td>4</td>
<td>12</td>
<td>14</td>
</tr>
<tr>
<td>Solid State Physics</td>
<td>1</td>
<td>3</td>
<td>6</td>
<td>1(4)</td>
</tr>
<tr>
<td>Theoretical Physics</td>
<td>2</td>
<td>4</td>
<td>6</td>
<td>3(5)</td>
</tr>
</tbody>
</table>

| Total                    | 12       | 14      | 38      | 1(3)     | 1(8)    |
|                         |          |         |         | 5(39)    |         |
| Full-time Grad. Stud.    |          |         |         |         |         |
|                         | 2        | 38      | 6       | 9        |         |
| First-year Grad. Stud.   |          |         |         |         |         |

**GRADUATE DEGREE REQUIREMENTS**

**Master’s:** Thirty graduate course credits, at least 24 on campus, including core, elective, and research courses, are required. Master’s thesis or passage of comprehensive examination is required.

**Doctorate:** Sixty credit hours beyond the bachelor’s degree, including core, elective, and research courses with at least two full-time semesters, are required. Transfer credit of up to 30 hours is allowed. Students are required to pass a written comprehensive examination, followed by an oral qualifying examination. Dissertation and dissertation defense examinations are required. Dissertation research may be conducted off-campus in approved programs.

**Thesis:** Thesis may be written in absentia.

**SPECIAL EQUIPMENT, FACILITIES, OR PROGRAMS**

Transmission electron microscope and ion beam laboratories study defects and other materials properties. EPR and Raman facilities are used to study biological physics. X-ray research includes applications to materials and medicine. Particle experimentalists are members of either the ATLAS collaboration at CERN or the LUX/LZ dark matter experiments. Robotics laboratory studies intelligent behaviors. Cooperative programs have been established with nearby General Electric Research and Development Center (Watervliet Arsenal, NY), State Public Health, and IBM Watson Research Laboratories.

**FACULTY**

**Professor**

*Caticha,* Ariel, Ph.D., California Institute of Technology, 1985.  

*Kuan,* Tung-sheng, Ph.D., Cornell University, 1977.  
Materials science, electron microscopy.

Materials science, thin films, ion beam analysis.

*MacDonald,* Carolyn A., Ph.D., Harvard University, 1986.  
Medical physics, optics (X-ray and visible).

**Associate Professor**

*Earle,* Keith, Ph.D., Cornell University, 1994.  
Biophysics, EPR spectroscopy, magnetic resonance.

*Ernst,* Jesse, Ph.D., University of Rochester, 1995.  
Experimental particle physics, machine learning.

*Goyal,* Philip, Ph.D., University of Cambridge, 2005.  
Information physics, foundations of quantum mechanics.

Experimental particle physics, colliders.

*Knuth,* Kevin, Ph.D., University of Minnesota, 1995.  
Computational physics, foundations of physics, space physics (study of exoplanets), robotics.

*Lunin,* Oleg, Ph.D., Ohio State University, 2000.  
Theoretical particle physics, string theory.

**Assistant Professor**

*Fotso,* Herbert F., Ph.D., Louisiana State University, 2011.  
Theoretical condensed matter physics, quantum optics, computational physics.

*Khmaladze,* Alexander T., Ph.D., University of South Florida, 2008.  
Optics, biophysics, Raman spectroscopy.

*Levy,* Cecilia, Ph.D., University of Muenster, 2014.  
Experimental particle physics, dark matter searches.

*Petruccelli,* Jonathan, Ph.D., University of Rochester, 2010.  
Experimental and theoretical optics, computational imaging.

Theoretical particle physics, string theory.

*Szydagis,* Matthew M., Ph.D., University of Chicago, 2010.  
Theoretical particle physics, dark matter searches.

**Professor Emeritus**

*Alam,* M. Sajjad, Ph.D., Indiana University, 1975.

*Benenson,* Raymond E., Ph.D., University of Wisconsin-Madison, 1955.

*Inomata,* Akira, Ph.D., Rensselaer Polytechnic Institute, 1964.

*Kimbball,* John C., Ph.D., University of Chicago, 1969.

*Marsh,* Bruce B., Ph.D., University of Rochester, 1962.

*Roth,* Laura M., Ph.D., Radcliffe Institute for Advanced Study, 1957.

*Scholes,* Charles P., Ph.D., Yale University, 1969.

*Scholz,* Wilfried W., Ph.D., University of Freiburg, 1964.

**DEPARTMENTAL RESEARCH SPECIALTIES AND STAFF**

**Theoretical**

Computational Physics. Applications of computational methods and data analysis to condensed matter physics, optics, particle physics, and planetary science. Ernst, Fotso, Knuth, Petruccelli, Szydagis.

Condensed Matter Physics. Strongly correlated electron systems, high temperature superconductors. Fotso.

Information Physics. Foundations of quantum mechanics and statistical physics; extraction of information from complex data. Caticha, Earle, Goyal, Knuth.

Optics. Computational optical modeling and imaging, quantum optics. Fotso, MacDonald, Petruccelli.

Experimental
Biophysics. Applications of ESR, EPR, and Raman spectroscopy to study of bioinorganic molecules; medical applications of x-ray optics. Earle, Khmaladze, MacDonald.


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.