Guide to the Department

Jacobus Verbaarschot, Graduate Program Director

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Stony Brook, August 2012
Class of 2012

Anar Amgalan (University of Denver)
Lucie Baumont (McGill University)
Andrew Cleland (Linfield Coll Mcminnville)
Hualong Gervais (McGill University)
Kuo-Wei Huang (National Taiwan University)
Bertus Jordaan (University of Pretoria)
Moshe Kellerstein (York University)
Rasmus Larsen (University of Copenhagen)
Xiaoyue Li (Wuhan University)
Carlos Marques (Stony Brook)
Alyssa Montalbano (Rensselaer Poly Institute)
Peter Petrov (Princeton University)
Naveen Prabhakar (*)
Gabriel Santucci (University of Sao Paulo)
Michael Stewart (Univ Michigan Ann Arbor*)
Nicolas Tarantino (McGill University)
Matthew Wahl (SUNY Center Stony Brook)
Yiqian Xu (USTC China)
He Zhang (Peking University)
Zoya (Indian Institute of Technology, Bombay)
Brian Arnold (Stony Brook)
Piefen Liu (Perimeter Institute)
Abhishodh Prakash (Stony Brook)

Jian Peng Ang (Princeton University)
Gong-jun Choi (Sogang University)
Lidong Ding (Shanghai Jiao Tong University)
Spencer Horton (Stevens Institute Tech)
Zhongling Ji (Xi’an Jiaotong University)
Maximilian Katz (Rensselaer Poly Institute)
Tatiana Konstantinova (Moscow Institute of Physics)
Yue Hang Leung (University of Cambridge)
Yizhuang Liu (USTC)
Aleksas Mazeliauskas (University of Cambridge)
Mehdi Namazi (Urmia University)
Daniel Pinghero (Clarkson University)
Taeho Ryu (Seoul National University)
Yanliang Shi (Nankai University)
Naveen Subramanya Prabhakar (Indian Institute of Technology)
Daniel-Eugen Tufcea (McGill University)
Chengjian Wu (Univ Minnesota Minneapolis*)
Vladislav Zakharov (Stevens Institute Tech)
Mingliang Zhou (Wuhan University)
Jean-Paul Nery (Stony Brook)
Ludwig Krinner (Stony Brook)
Hans Niederhausen (Stony Brook)
Where Do You Come From

Counted according to the country where you lived during the past year

<table>
<thead>
<tr>
<th>Country</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>12</td>
</tr>
<tr>
<td>Canada</td>
<td>4</td>
</tr>
<tr>
<td>Korea</td>
<td>2</td>
</tr>
<tr>
<td>Brazil</td>
<td>1</td>
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<tr>
<td>Denamrk</td>
<td>1</td>
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<tr>
<td>Iran</td>
<td>1</td>
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<td>Mongolia</td>
<td>1</td>
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<tr>
<td>Singapore</td>
<td>1</td>
</tr>
<tr>
<td>Taiwan</td>
<td>1</td>
</tr>
<tr>
<td>China</td>
<td>9</td>
</tr>
<tr>
<td>India</td>
<td>4</td>
</tr>
<tr>
<td>Germany</td>
<td>2</td>
</tr>
<tr>
<td>Bulgaria</td>
<td>1</td>
</tr>
<tr>
<td>Hong Kong</td>
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<tr>
<td>Lithuania</td>
<td>1</td>
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<tr>
<td>Russia</td>
<td>1</td>
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<tr>
<td>South Africa</td>
<td>1</td>
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<tr>
<td>Argentina</td>
<td>1</td>
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</tbody>
</table>

Counted according to country of last degree the distribution is somewhat different.
Programs of Class of 2011

Class of 45 students: 35 PhD Program
2 MS Program
8 MA Program

✓ PhD and MS students are supported as Teaching Assistant (TA)

✓ MA students do not teach and can focus 100% on their studies. They are supported by fellowship or other resources.

✓ PhD and Master students do the same classes and are treated exactly the same in all other respects.

✓ Master students who do well are recommended to apply to the PhD program.
The Department

✓ Governance
   Chair: Prof. Laszlo Mihaly
   Committees: Admissions Committee, Graduate Committee, Advising Committee, Exam Committee
   Undergraduate Program Director: Abhay Deshpande
   Graduate Program Director: Jacobus Verbaarschot
   Faculty Meeting: meets 4-6 times a year

✓ Staff in the Main Office
   Sara Lutterbie (Assistant Director of the Graduate Program)
   Socoro Delquaglio (Business Manager, keys, copying cards)
   Diane Diaferia, (Assistant to the Undergraduate Program Director)
   Nathan Leoce-Schappin, Assistant to the Chair
   Frank Chin, Director of the Physical Laboratories
   Rich Berscack, Building Manager

✓ Instructional Laboratory
   Jose Feliciano

✓ Faculty
   Regular faculty: they are the heart of the department
   Adjunct faculty: typically scientist at BNL who have graduate students or teach
   Affiliate faculty: Faculty who are paid by other departments

✓ Students
   They are the center of the department
The University

✓ Graduate School
  Dean: Chuck Taber
  Associate Dean: tba
  Assistant Deans: Barbara Byrne, Nina Maung
  Graduate Student Advocate: Kristina Stoyanova

✓ International Services
  Assistant Dean: tba

✓ Graduate Student Organization
  President: Charilaos Papadopoulos
  Webmaster: Ciprian Gal

✓ Graduate Student Employee Union (GSEO)

✓ Stony Brook Research Assistants Union

✓ University Senate
  President:
  Graduate Council: approves all the rules
  you have to live with

✓ University: President, Provost, Dean
  President: Samuel Stanley
  Provost: Dennis Assanis
  Dean of the College of Arts and Sciences: Nancy Squires
Opportunities outside Stony Brook

✓ Laboratories outside Stony Brook at which you might do your thesis research
  Brookhaven Laboratory (BNL): RHIC, NSLS, Nanomaterials
  Cold Spring Harbor (CSH): biological sciences
  Fermilab: D0
  CERN: Atlas
Your Role in the Department

**Student:** Pass exams, register to courses, do homework, pass tests, keep grade point average, watch for deadlines.

**Teacher:** Teach undergraduate lab courses (occasionally recitations), grade exams, homeworks.

**Researcher:** Focus your interest, find and advisor, learn a special field, do your own research

**Citizen:** Be involved socially, vote at elections, help other students, be nice, do not tolerate academic or scientific dishonesty.

**US Citizens or Permanent Residents:** Become a NY State Resident as soon as possible (not later than December 15). Otherwise you will be responsible for the difference between in-state and out-of-state tuition.

Keep your eye on the ball: your goal is to get a PhD degree ASAP (ASAP: as soon as possible - no sooner, no later).

**Sign up to be a member of the American Physical Society**
Questions on the Graduate Program

Guide
Frequently asked questions
Current and past course WEB pages
Bulletin Board (PhD projects, fellowships, jobs, etc.)
Recent exam problems.

Ask Sara or me if you have any questions. Tell us if you have any problems. She can do the impossible right away but she is quite busy this time of year.

(Exception: visa problems, go directly to Foreign Student Office)
Podcasts of the Graduate School

If you not already have done it, all of you should have watched the Podcasts of the Graduate School at https://www.grad.stonybrook.edu/students/Orientation/index.shtml.

There are 5 podcasts:

- Introduction
- Policies and Procedures
- Health Insurance
- Resources
- Student Life
**Computer Questions**

The university guide is at [http://it.cc.stonybrook.edu/student_guide](http://it.cc.stonybrook.edu/student_guide)

**Solar system:** Use it for registration, checking your student account, etc.

**Wireless access:** It is provided by the Campus-wide AirNet service. Does not cover all of our building, but works fine in the Grad Student Lounge and in the Library. NetID and NetID password is required.

**Laptops:** limited number of laptop computers are available to students in the Instructional Laboratory

**NetID:** Log in to Solar, set up your NetID account.

**WEB server:** disk storage: 500MB free space, also good for setting up your own WEB pages.

More advise can be found on [http://tlt.stonybrook.edu/](http://tlt.stonybrook.edu/). Click on Technology Orientation.
Registering Your Computer

✓ To connect your computer to the network, you need an IP address.

✓ To get an IP address in the ESS building, email Doug Swesty (Douglas.Swesty@stonybrook.edu).

✓ To connect to the internet in the Physics and/or Math buildings you need to register your computer (in fact your computer’s network card). To do this, send a request to John Noe (John.Noe@stonybrook.edu) with the following information:

1. Your full name and status (graduate student, visitor, etc.)
2. Your office location and telephone number.
3. Your research group if you belong to one.
4. The type of computer (laptop or desktop).
5. Is the computer for personal use or part of the research group, ie, who owns it?
6. The name you want for your computer
7. The operating system the computer runs (linux, Unix, Windows, Macintosh, etc.).
8. The MAC (“Media Access Control”) or physical address is a hardware address that uniquely identifies each node of a network.

To get the physical address on a Linux or Macintosh computer, run the `ifconfig` command. The physical address is six pairs of hex digits separated by colons, labeled “ether” under “en0:”. Example: “ether 00:25:4b:b1:58:f0”
Email

The Electronic Post Office (EPO) gives you a generic email address (which is usually Firstname.Lastname@stonybrook.edu) that directs email to your Stony Brook Google Mail account.

To find your email account, go to Solar [http://it.cc.stonybrook.edu/solar](http://it.cc.stonybrook.edu/solar) and click on Google Apps. You will be asked for your NetId and your Password (which can be set by logging into Solar),

Please note that your Stony Brook Google email account will be closed the semester after you graduate or leave the University.

If you want to receive email on a different server, click on Settings (upper right) of your Google account.

More information on your Google Mail Account can be found at [http://it.cc.stonybrook.edu/google/student_info](http://it.cc.stonybrook.edu/google/student_info)

Please use email addresses that have your name – otherwise I cannot find back your emails.

Also use a email-subject that reflects the content of your email. Do not blindly use “reply”.

WE WILL USE THE GENERIC EMAIL ADDRESS IN ALL COMMUNICATIONS, AND IT IS YOUR RESPONSIBILITY TO MAKE SURE THAT THE MAIL IS FORWARDED TO AN ACCOUNT THAT YOU ACTUALLY READ!!!
Wireless

Wireless internet access is available in most of the building. The campus AirNet system can be used in the Math, Physics and Astronomy Library (C-130). Follow the instructions on the page to set up your laptop for this service:

http://it.cc.stonybrook.edu/networking/wireless

In addition, a few research groups provide wireless access through local routers for their members and visitors. Contact the group leader or group computer administrator to arrange access.

The campus policy on the use of information technology is at

http://it.cc.stonybrook.edu/policies/p109/
Copy Machines

✓ **Research:** a copy card to make copies related to your research can be purchased from Frank Chin in the Main Office. The card will allow you to make copies on the copier on the Main Floor in room P-115.

✓ **Course Material:** to make copies for a teaching assignment, please see the Main Office for a copy card.

✓ **Problems:** please report any difficulties with the copy machine to the Main Office.
Identity Card

Once you are admitted to the university, you will have a campus ID number that will allow you to log-on to the SOLAR system (see below) where class rosters/grades, etc. information can be accessed. The ID number will also allow you to obtain an ID card from the Campus Card Office, Rm. 254, Admin. Bldg. The ID card is your official identification at Stony Brook University.

Your ID card also gives you the ability to become a member of Teacher92s Federal Credit Union (TFCU), which has a branch in the basement of the Student Activities Center, Rm. 009B.
Parking

You may obtain a parking permit for your car by logging onto http://www.stonybrook.edu/parking. You will need to provide your USB ID Number (or Social Security Number) and the license plate number from your car.
Pay Checks

State paychecks are distributed in the Main Office every other Wednesday. Research Foundation paychecks are distributed in the Main Office every other Friday.

Attendance Rosters must be signed each month for either payroll roster. If you are not on campus when the notice to sign arrives, contact Diane Diaferia (diane.diaferia@stonybrook.edu) for a form that you can submit by fax. Please see the Main Office for either State or Research Foundation forms that will allow direct deposit to your bank. This is a convenience to you, and highly encouraged university practice.
Solar System

The on-line system that students use to register for classes, and faculty use to see class rosters and enter grades. Go to [http://it.cc.stonybrook.edu/solar](http://it.cc.stonybrook.edu/solar) to log in. Your Stony Brook ID Number is your username.
All students have access to the Campus Network file storage system (SB Drive) which can also be used for personal web pages. See the TLT help site for more information.
Web Sites

√ Stony Brook University: [http://www.stonybrook.edu](http://www.stonybrook.edu)

√ Department. of Physics and Astronomy:
  [http://www.physics.sunysb.edu/Physics/](http://www.physics.sunysb.edu/Physics/)

√ Graduate Program: [http://graduate.physics.stonybrook.edu](http://graduate.physics.stonybrook.edu)

√ Graduate School: [http://www.grad.sunysb.edu/](http://www.grad.sunysb.edu/)

√ Stony Brook IT Guide [http://it.cc.stonybrook.edu/student_guide](http://it.cc.stonybrook.edu/student_guide)

√ Solar Stony Brook [http://it.cc.stonybrook.edu/solar](http://it.cc.stonybrook.edu/solar)
Living on Long Island

Team up with other students to get off-campus housing

Get a bicycle

Get a car (or a friend with a car). Working at BNL is not possible without a car.

Use opportunities on campus:

- Staller Center (concerts, movies, recitals)
- Gym, squash, racket ball, swimming, running, tennis
- Soccer
- Summer Keg
- Starbucks
- University Cafe

West Meadow Beach

NY City
Medical Issues

✓ Hepatitis B. This is a serious liver disease that is transmitted by exchanging bodily fluids. The infection is lifelong. The American College Health Association recommends that all College students be vaccinated against this disease. Infections in some of the home countries of students on this campus are as high as 15%.

✓ AIDS. Safe sex is the only answer. Same for other venereal diseases. Again, because this campus is multi-cultural, some the students come from societies with very high infection rates, and potentially everybody is at risk.

✓ Skin Cancer. Always use sunscreen and keep your body covered when outside.

✓ Lime Disease. If you have a tick byte, get it checked out, and it you get the classical symptoms of Lyme disease, immediately get it checked out.

✓ Poisonous Ivy. Be sure that you recognize this plant and carefully avoid touching it. Never walk barefoot on a lawn.

✓ Mental Diseases. Depression, anxiety, etc. Seek help when this occurs at Counseling: http://studentaffairs.stonybrook.edu/shs/info.shtml

✓ Student Health Service: http://studentaffairs.stonybrook.edu/shs/info.shtml

✓ Don’t smoke. Don’t use drugs. If at all, only drink alcohol in moderation.
The Rest of the Week

- TA training
- Orientation about courses and exams
Most students work as lab instructors in large undergrad courses. Training for this job starts later today by a talk of Professor Peter Koch. The bulk of your training will be to prepare a sample presentation for a lab course.

Choose assignment today
Prepare today, tomorrow, Thursday and in any free time you can find
Lab presentations Friday

Teaching assignments are being made; will be complete by Friday. Meet here with professors who are teaching the courses to sort out your assignment times. Possible change of assignment – if miss this session, you are at risk of facing real problems.

Please be flexible with your schedule. Teaching has to be done, and it may be that you cannot take your favorite course or seminar this year.

Find time to get ID card, set up email

Register for courses: Friday, after talking to advisors. Use Solar.
Map of the Physics Building