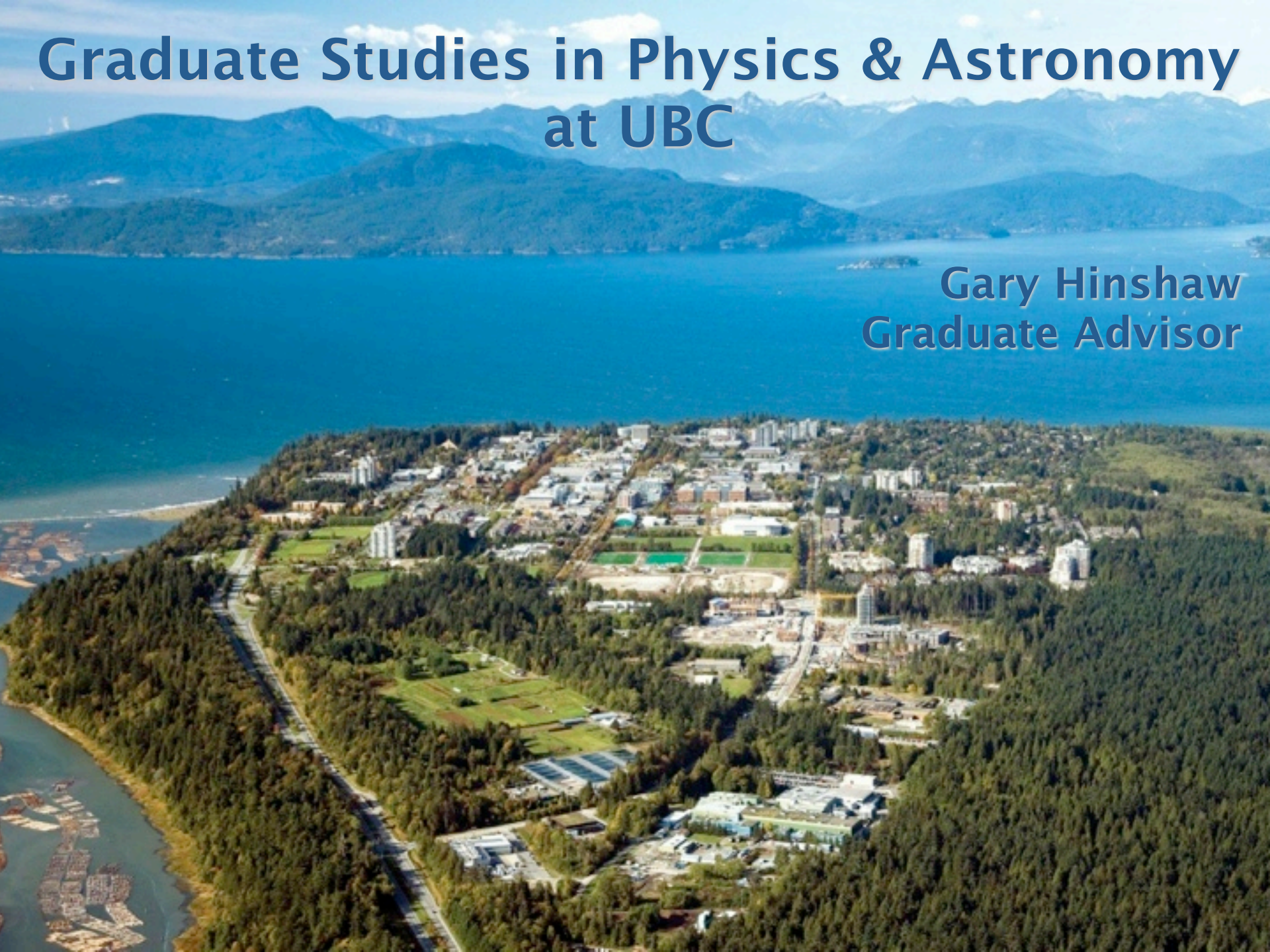


Graduate Studies in Physics & Astronomy at UBC

Gary Hinshaw
Graduate Advisor







Colin Gay
Department Head
Hennings 337





Colin Gay
Department Head
Hennings 337



Hiro Tanaka
Grad. Admissions
Hennings 278





Colin Gay
Department Head
Hennings 337



Hiro Tanaka
Grad. Admissions
Hennings 278



Matthew Choptuik
Grad. Open House
Hennings 403





Colin Gay
Department Head
Hennings 337



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Arial (Eric) Zhitnitsky
Awards Chair
Hennings 270



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Department Head
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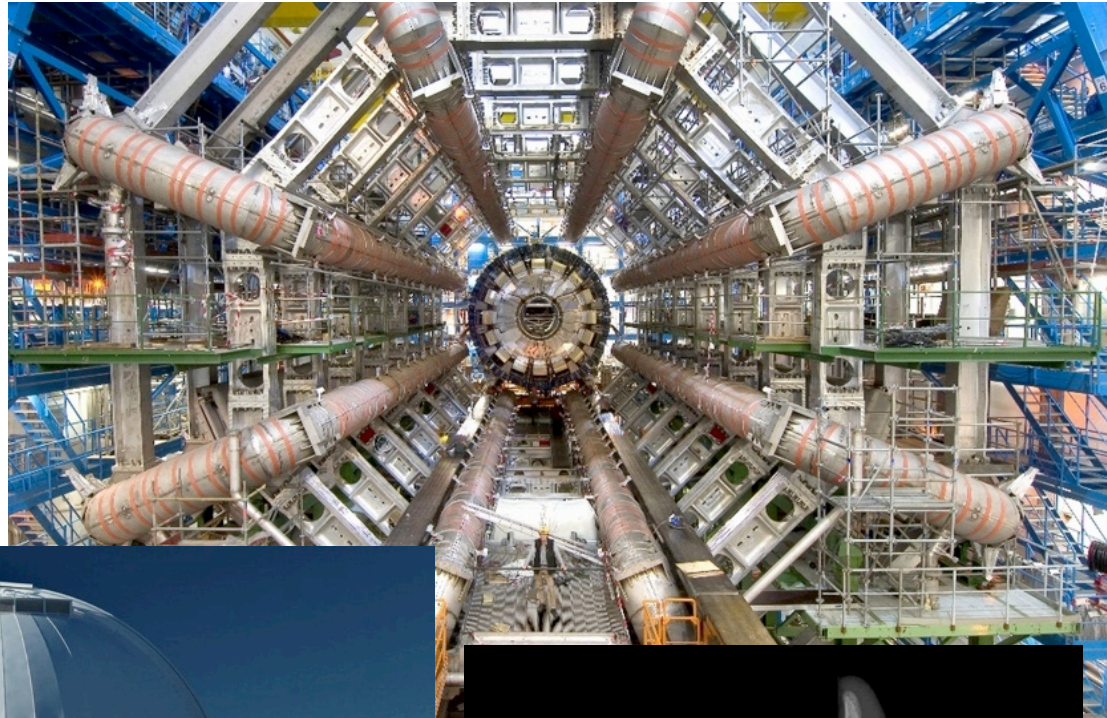


Gary Hinshaw
Graduate Advisor
Hennings 341

Degree Programs at PHAS

- M.Sc. - Physics
- M.Sc. - Astronomy
- M.Sc. - Medical Physics
- M.A.Sc. - Applied Physics

- Ph.D. - Physics
- Ph.D. - Astronomy



M.Sc. Degree Program

- Select a research supervisor by Dec 31
- 18 credits of coursework (12 or more at the 500 level)
 - Physics program - must include PHYS 500, and one of PHYS 501, 504, 508, 516 or 526
 - Astronomy program - one of PHYS 500, 501, 504, 508, 516 is required along with the ASTR degree requirements
- Medical Physics students take a fixed syllabus
- Deliver M.Sc. thesis to supervisor and a second reader
- Give a public presentation of the thesis
- Submit thesis to FoGS with program completion form
- Normally completed within 2 years

Ph.D. Degree Program

- Select a supervisory committee
- Complete 12 credits of coursework (500 level)
- Prepare a thesis proposal
- Advancement to candidacy (expected within 2 yrs)
 - Coursework complete
 - Thesis proposal accepted by supervisory committee
 - Comprehensive exam passed (oral or written)
- Complete Ph.D. thesis...
- Submit to external examiner
- Departmental defense
- Thesis submitted to FoGS
- Final university defense

Direct Transfer to Ph.D. Program

- Available to M.Sc. students in their first year:
 - Must complete 12 credits of 500-level course work
 - Must obtain an average grade of 85% or more
 - Requires approval of the student's Ph.D. supervisor
- If these three conditions are satisfied, the student can transfer directly into the Ph.D. program at the end of the first year
- No M.Sc. thesis required, no M.Sc. degree awarded
- An additional 12 credits of coursework is needed in the Ph.D. program

Ph.D. Supervisory Committee

- Typically 4 to 5 members, including supervisor
- Chair of the committee, and no less than 50% of the committee, must be FoGS (Faculty of Graduate Studies) members
- Must include a member in a different field from that of the student's research (e.g., an astronomer for a physics program)
- The Research Supervisor need not be a member of FoGS, but does need to be approved by the Dean. In that case a FoGS member is required to be an academic co-supervisor
- Committee should be formed as soon as possible
- Committee should meet at least once per year

Financial Assistance at PHAS

Funding	M.Sc. no scholarship	M.Sc. NSERC CGS-M	Ph.D. No scholarship	Ph.D. NSERC CGS-D	Ph.D. UBC 4yr fellow
TA	\$9,083	-	\$9,440	-	-
RA	\$14,400	-	\$12,800	-	\$4,000
Schol.	-	\$17,500	-	\$35,000	\$18,000
Award	-	\$2,000?	\$4,263	\$4,263	\$4,263
GSI	-	\$6,000	-	-	\$4,000
Total	\$23,483	\$25,500	\$26,503	\$39,263	\$30,263
Tuition	\$4,263	\$4,263	\$4,263	\$4,263	\$4,263
Fees	\$944	\$944	\$944	\$944	\$944
Net	\$18,276	\$20,293?	\$21,296	\$34,056	\$25,056

Funding is guaranteed for 2 years M.Sc. and 4 years Ph.D., subject to satisfactory progress.

<http://www.phas.ubc.ca/graduate-program-financial-support#overview>

Financial Awards

NSERC (www.nserc-crsng.gc.ca):

- Canadian citizens or landed immigrants only
- Masters: PGS-M, CGS-M (1 year at a time)
- Doctoral: PGS-D, CGS-D

UBC Four-Year Fellowships (PhD only):

- Quota assigned by Faculty of Science (FoS)
- Selection made by the PHAS Awards Committee

UBC affiliated awards:

- Available to all students
- NSERC applicants are automatically considered

Other:

- PhD tuition awards - provided by FoGS or FoS
- GSI scholarship supplement awards
- Graduate student travel awards
- Departmental prize (best first-year student)
- Check www.grad.ubc.ca for other awards



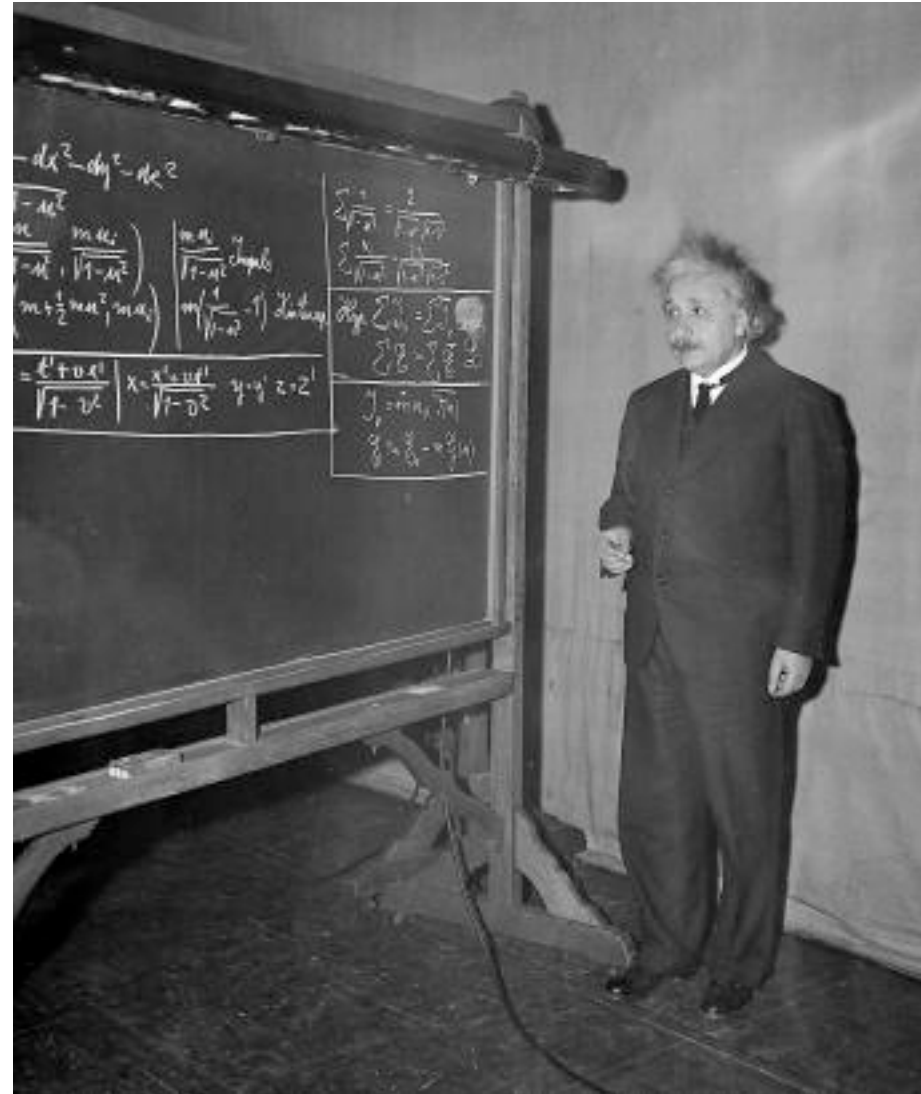
Teaching / Research Assistantships

Teaching Assistantships (TA)

- 1 unit = 6.4 hrs/week
- Normal is 2 units per term (non-scholarship students)
- TA training workshop required in fall

Research Assistantships (RA)

- Provided by Research Supervisor
- Not applicable to NSERC scholarship holders



Academic Performance

To remain in the M.Sc. / M.A.Sc. program:

- Passing grade is 60%, but ...
- Must have 68% or more in 12 course credits
- 74% grade is required when repeating a failed course
- Failing two courses usually leads to withdrawal
- Satisfactory progress towards thesis
- 18 course credits required

To remain in the Ph.D. program:

- Passing grade is 68%
- Satisfactory progress towards thesis
- 12 course credits required



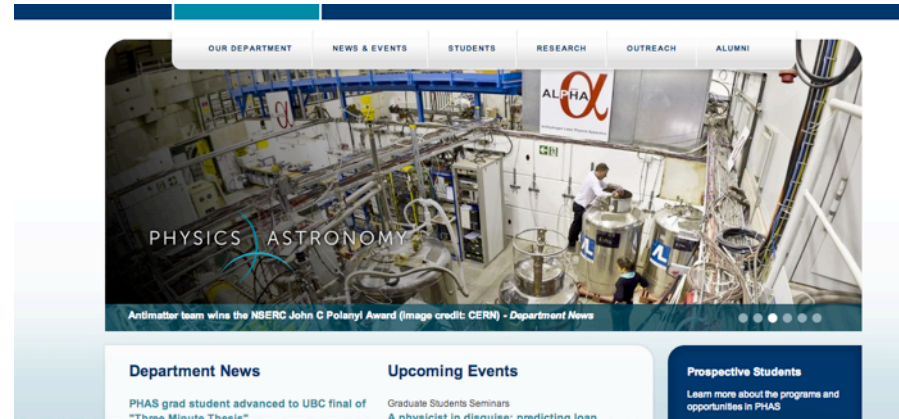
All graduate students must register in the thesis course (PHYS 549, 599, 649, ASTR 549, or 649) every term in the program, including summer.

Web Resources

PHAS web site:

www.phas.ubc.ca

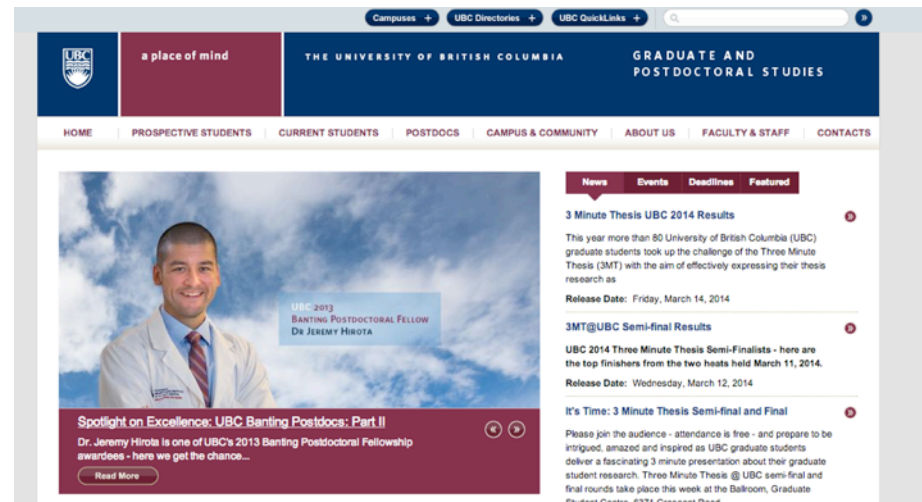
- graduate program info
- researcher's web sites
- course information
- events



FoGS web site: (Faculty of Graduate Studies)

www.grad.ubc.ca

- graduate program info
- award information
- policies & procedures
- forms



Come to UBC!

Please spend the day getting to know us and asking us questions about research opportunities and graduate life at UBC. We are here for you!

I will be available most of the day in Hennings 341 (down the hall) to discuss cosmology research opportunities and/or graduate programs questions.



UBC Physics and Astronomy