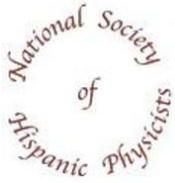


The Hispanic Physicist

The Newsletter of the National Society of Hispanic Physicists

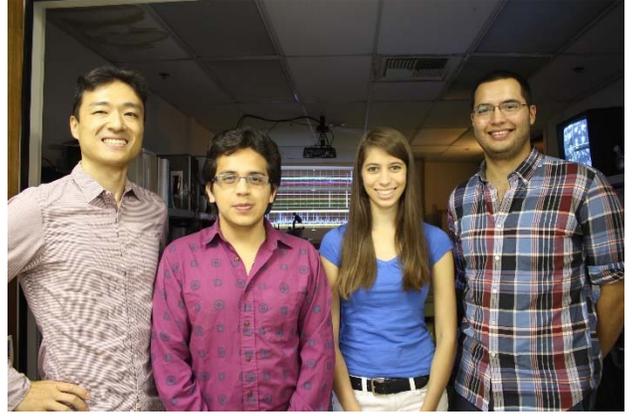
Year 19

September 2, 2015



2015 NSHP Blanco Fellows

Victor M. Blanco Fellows (sponsored jointly by the NSHP and LIGO Laboratory) Ignacio Magaña Hernandez of the University of California, Santa Barbara (second from left) and Jessica Peña of the University of Chicago (third from left) flanked by their research mentors Koji Arai (left) and Eric Quintero (right) of LIGO Laboratory, Caltech. Ignacio and Jessica worked on different aspects of adaptive feed-forward seismic noise cancellation for the Advanced LIGO gravitational-wave detectors, during their 10-week internship at the Caltech 40 meter prototype gravitational-wave detector, in summer 2015.



NSHP congratulates Jessica and Ignacio!

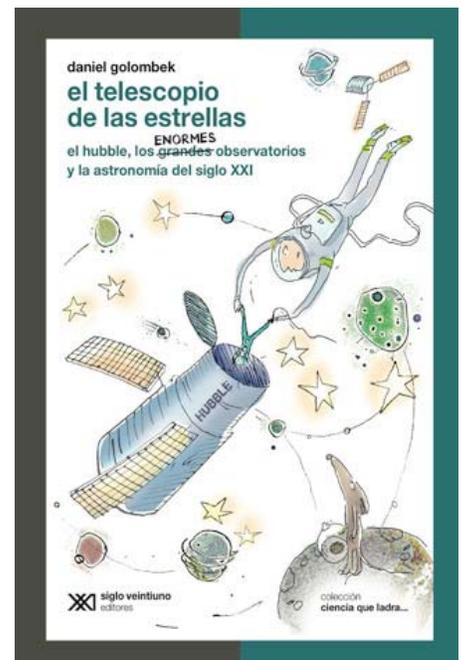
Spanish language book by Dr. Daniel Golombek

El telescopio de las estrellas, Hubble, los enormes observatorios y la astronomía del siglo xxi

The Hubble Space Telescope's discoveries over the last 25 years have revolutionized our understanding (actually our ignorance) of the cosmos and forced the rewriting of the astronomy textbooks. People are mesmerized with its pictures: no other scientific instrument has the name recognition or was adopted by the public in this manner. Before joining AIP's Education Division, Daniel Golombek worked at the Space Telescope Science Institute and NASA HQ on all aspects of the science operations of Hubble.

Recently Golombek published *El Telescopio de las Estrellas: El Hubble y los Enormes Observatorios del Siglo XXI* (*The Telescope of the Stars: Hubble and the Huge Observatories of the 21st Century*). In this lively book written for general audiences, Golombek tells the story, operations, and instrumentation of Hubble and the other three NASA Great Observatories (Chandra, Compton, and Spitzer), and especially about the discoveries they made. It also covers the current ground-based observatories, the James Webb Space Telescope, for example, and the next generation of space- and ground-based observatories in construction or being planned.

The book is published in Spanish by Siglo XXI Editores. More information can be found here: <http://www.sigloxxieditores.com.ar/fichaLibro.php?libro=978-987-629-554-3>.



Indiana University Graduate School

"Getting You into IU"

The Indiana University Graduate School would like to make you aware of our fall recruitment

program, "**Getting You into IU**" for prospective underrepresented and minority PhD and MFA students interested in Fall 2016 admission to Indiana University Bloomington (IUB). The event begins on Sunday October 25, 2015 and ends on October 27th, 2015.

Indiana University Graduate School will provide all travel, lodging, and meals for visiting participants selected for this program. Completed applications to participate must be submitted by September 7, 2015.

We invite you to watch this short video about the program: <https://youtu.be/UPdniVuVFuU>

See the attached document for more information. If you have any questions about the program, please respond to this email. More information can also be found at <http://graduate.indiana.edu/campus-visit.php>.

Remember the application deadline is **September 7th, 2015!**



The Datum Institute, a new nonprofit institute for "radical research with social impact"



The Datum Institute is a new research and education nonprofit that I am starting with Jorge Lopez and some other friends and we are planning on doing some "radical research with social impact." You can check out the mission of the Institute here: <http://datuminstitute.org/pages/about.html>. One of our observations is that when the activation barrier of a human endeavor is reduced so a that a large number of people can participate, revolutions happen. A clear example is the internet, which existed before the hyperlink and the web

browser, but only started having an impact when the mouse and hyperlinks were combined with a graphical user interface and this simply changed our civilization. We want to start a small revolution by encouraging scientists to write shadow scientific articles for lay audiences, i.e., write a short piece to accompany each peer-reviewed scientific article that is published so that an intelligent but not expert person can understand what was done and why it is important. I am not talking about dumbing down anything, but about really explaining it. I can assure that great things will happen when scientific ideas can move out of the firewalls of greedy publishers and make their way through the obtuseness of technical language and into the hungry and fertile minds of curious and intelligent humans. I recently talked to a professor at Caltech who just finished an offering of a graduate-level astrophysics MOOC. He was not disappointed that 90% of the 30,000 people who started the class did not finish, he was elated that 3,000 people finished, many of them performing as well or better than Caltech grad students.

I would like to invite you to contribute such articles to our blog. It can be a one-hit-wonder or you can become a regular contributor. You can write about a recent article published by you or by others, or a more dated one that you consider seminal. We are also interested in articles that talk about more general concepts and are apt for other audiences, e.g., middle school or high school students. Contributions of other types are probably welcomed as well if they don't jeopardize our nonprofit status. Please don't limit yourself to English either, contributions in other languages are encouraged. We are planning on building a very strong social media presence and if you go to our webpage you can see that we are ready to go live with our LinkedIn, Facebook,

etc. profiles. I am expecting to go live on July 20th. SACNAS will introduce us in social media and some scientists and technologists that are active in social media will help us as well.

This is a great opportunity to reach out to the public and start making a difference. Please let me know if you would like to contribute and we can discuss the details. Please also feel free to forward this email to anyone who you think might be interested. Thank you very much, and have a great rest of the weekend.

Jorge Munoz, CEO of The Datum Institute



COLLEGE SUCCESS FOR WOMEN IN STEM

Scholarships, Programs and Organizations Helping Women Bridge the STEM Gender Gap

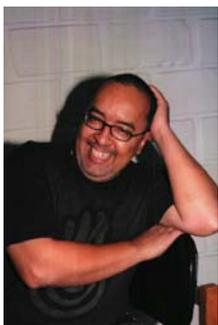


Expert-driven guide for women interested in STEM disciplines

We've just completed our expert-driven guide for women interested in STEM (Science, Technology, Engineering, and Math) disciplines. We would be delighted if you'd add it to your resources page. You can view the new guide here: <http://www.affordablecollegesonline.org/women-in-stem/>. Our goal in creating this guidebook was to build a comprehensive resource that women can use to learn about their education and career options in STEM fields. The guide is filled with various online and campus-based resources, including:

- A list of scholarships and grant opportunities exclusively for women in STEM
- A list of the top careers for women in STEM
- An interview with Dr. Wendi Heinzelman, professor of Electrical and Computer Eng. at the University of Rochester

Contact: Dan Schuessler, Co-Founder and CEO, Affordable Colleges Online, dan@affordablecollegesgroup.org



Visiting Scientist from Colombia

Dr. Roman E. Castaneda Sepulveda from Colombia is interested in finding a US collaborator to visit in 2016. Dr. Castañeda Sepulveda is a theoretist, but is also looking for experimentalists interested in proving his calculations. His main field of interest is the classical theory of optical coherence, and has been developing a unified theory for interference and diffraction of both waves and particles in arbitrary states of correlation. He can obtain some financial support from his University, but would need extra support from the receiving institution. Please take a look at his vast CV and, if interested, contact him directly at rcastane@unal.edu.co.



ALFRED P. SLOAN FOUNDATION

• Call for Nominations

Sloan Research Fellowships

\$55,000 fellowships for exceptional junior faculty in the sciences, mathematics, and economics

Deadline: September 15th, 2015

What are they?

\$55,000 fellowships awarded annually to exceptional junior faculty in eight scientific and technical fields.

Who is eligible?

Candidates must hold a tenure-track (or equivalent) position at a college, university, or other degree-granting institution in the U.S. or Canada and have been awarded their Ph.D. (or equivalent) on or after September 1, 2009.*

What can you do?

To be eligible, candidates must be nominated by a department head or other senior researcher. Please inform your faculty about this opportunity and consider nominating one of your outstanding junior colleagues for a fellowship. In keeping with the Foundation's long-standing tradition of supporting underrepresented groups in the science, technology, engineering, and mathematics, we strongly encourage the nomination of women and minorities.

Learn more: www.sloan.org/fellowships

Eligible Fields

Chemistry
Computer Science
Economics
Mathematics
Neuroscience
Ocean Sciences
Physics
Computational and
Evolutionary
Molecular Biology



PROMOTING PEOPLE IN PHYSICS

APS BRIDGE PROGRAM PROJECT MANAGER

The American Physical Society (APS) www.aps.org, the premier membership association for physicists, seeks a dynamic and personable science professional to fill the position of APS Bridge Program Project Manager based at APS Headquarters in College Park, MD (near DC Metro College Park Station, Green Line). The Project Manager will provide national leadership in developing, organizing, and implementing elements of the APS Bridge Program (APS-BP) that has a goal of increasing the number of underrepresented minorities receiving doctoral degrees in physics.

Responsibilities include: Managing day-to-day activities of the project including setting agendas, managing a student application process, tracking budgets, and supporting and monitoring activities of universities that enroll bridge students; writing and editing written materials for the project; developing, vetting, and improving policies governing the APS-BP; developing and fostering relationships with students and faculty at all types of institutions; organizing national meetings to help education leaders understand and reduce barriers faced by underrepresented minority students in pursuing doctoral education in physics; becoming familiar with the literature concerning barriers that limit participation in graduate programs; providing guidance to students who are seeking to explore graduate education in physics; and collecting and analyzing data to help develop an understanding and provide recommendations to improve practices in the physics community.

Graduate degree in physics or related science discipline required (PhD preferred); experience and compassion in dealing with issues faced by underrepresented groups in physics education; excellent inter-personal skills needed to effectively interact with physics education leaders; able to read and synthesize overviews of relevant subject areas. Ability to travel is important. Excellent written and verbal communication skills are required.

To apply, send cover letter with salary requirement, resume and a list of your professional references to the attention of the Director of Human Resources via e-mail: personnel@aps.org or fax: 301-699-8144. EOE M/F/D/V

Assistant Professor - Experimental Materials Physics - University of Texas at El Paso

The Department of Physics at The University of Texas at El Paso (UTEP) invites applications for a tenure-track Assistant Professor position in experimental materials Physics. Preferred research areas include nano- and meta-materials, nano-magnetism, and low dimensional systems. Outstanding candidates in other related areas will also be considered. The successful candidate is expected to establish an independent, externally funded research program to complement and help expand the department's experimental and computational research in materials physics; to mentor students and teach both undergraduate and graduate courses in Physics; and to engage in outreach and service activities. Applicants should hold a Ph.D. in Physics or a closely related discipline, possess postdoctoral experience, and have a strong record of research accomplishments.



To apply, send a letter of interest, curriculum vitae, statement of research interests, description of teaching philosophy, and contact information for at least three references electronically as a single PDF file to Dr. Felicia S. Manciu, Search Committee Chair, with the subject line: UTEP Assistant Professor Physics Search. Email: AsstProfPhysics2015@utep.edu. Review of applications will begin immediately and will continue until the position is filled.



THE PAUL & DAISY SOROS FELLOWSHIPS FOR NEW AMERICANS

Graduate fellowship from The Paul & Daisy Soros Fellowships for New Americans

Greetings from [The Paul & Daisy Soros Fellowships for New Americans](http://www.pdsoros.org). Our graduate Fellowship provides up to \$90,000 in support for **immigrants and children of immigrants** who are pursuing graduate school in any field and at any institution in the United States.

I'm writing to let you know that our new application is now open and available on our website, where you can also find our full eligibility requirements: pdsoros.org. If you know of a child of immigrants, or someone who is a DACA recipient, green card holder or a naturalized citizen who is pursuing graduate school, we would very much appreciate it if you would forward this e-mail to them. The application deadline is **November 1, 2015**.

Contact: **Nikka Landau Beaugard, Communications Coordinator, Paul & Daisy Soros Fellowships for New Americans**, 224 West 57th Street, New York, NY 10019, telephone: [212-547-6926](tel:212-547-6926), e-mail: nbeaugard@sorosny.org, web: www.pdsoros.org



Smart Investments in Latino
Communities Across the Americas

Un camino hacia la ciencia: por las jóvenes indígenas de Chiapas

Science Program Adopt a Talent for the support to gifted indigenous girls in the state of Chiapas, Mexico

As co-founder and present president of the Directive Council of PAUTA (Program Adopt a Talent) I cordially invite you to join our efforts to provide sustained advice and economical support to gifted indigenous girls in the state of Chiapas, Mexico. Along the last eight years Pauta has been working with students, their public school teachers and their parents offering regular workshops with hands-on science activities, conferences and sharing from high level female scientists and economical support. Gifted indigenous young girls have benefited from this activities, being able to continue along the path of elementary, secondary, high school and university, which some of them are now successfully finishing. For



more information: <https://hipgive.org/project/pauta> (INGLES), <https://hipgive.org/es/project/pauta> (ESP). Please also share this message with friends and colleagues who could be interested. Contact: Dr. Jorge G. Hirsch G., e-mail: hirsch@nucleares.unam.mx, Instituto de Ciencias Nucleares, Universidad Nacional Autonoma de Mexico.



Position Announcement - Extended Deadline

Full-time Assistant Professor Position in the Department of Mathematics and Physics

Commencing on August 16, 2015. This is a continuing, tenure-track appointment. We are seeking a faculty member to hold a Joint appointment in the Mathematics and Physics Departments with the primary department and tenure home reflecting the candidate's academic background/experience. Startup funds will be available.

Minimum Qualifications: Applicants must hold a Ph.D. in Physics or Mathematics and have a record of scholarship, and teaching experience in mathematics or physics. Area of research must be in Mathematical Physics. Applicants with experience in algebraic methods (operator algebras, optimization and / or control) and / or quantum information/computation/control theory will be given preference as will applicants that can collaborate with one or more members from both departments so as to foster interdisciplinary research. The successful candidate is expected to pursue a vigorous research program, publish in professional journals, seek external funding, and teach and develop undergraduate and graduate courses.

Applicants should send a letter of application, curriculum vitae, a research plan (not more than two pages), a statement of teaching philosophy (not more than one page), and the contact information, including emails, of three references (at least one should be able to comment on the candidate's teaching ability) to: Math/Phys search committee, Mail Code 4401, Southern Illinois University Carbondale, 1245 Lincoln Dr., Carbondale, IL 62901. Or submit the materials electronically to spleasure@physics.siu.edu. We will begin reviewing applications on August 31, 2015 and will continue until the position is filled.

Yale University - Tenure track faculty position in experimental astrophysics, particle physics and nuclear physics



The Department of Physics at Yale University invites applications for a tenure track faculty position in the areas of experimental astrophysics, particle physics and nuclear physics, broadly defined. We are especially interested in candidates whose research program includes development of new instrumentation for next-generation experiments that will address cutting-edge questions in astrophysics, weak interactions, fundamental symmetries, or physics beyond the Standard Model. The department offers a stimulating environment that encourages interactions with experimentalists and theorists and has several active inter-departmental units including the Yale Center for Astronomy and Astrophysics and the Yale Wright Laboratory. The successful candidate must have a Ph.D. or equivalent degree at the time of hire. Yale faculty are expected to lead internationally recognized and forefront research programs, teach effectively at the undergraduate and graduate levels, and have a strong commitment to mentoring and service.

An appointment at the Assistant Professor level is expected with a start date of [July 1, 2016](#), although in exceptional cases, an appointment at a higher rank could be considered. Applicants are encouraged to apply online at <http://apply.interfolio.com/30535> and must submit a cover letter, curriculum vitae, publication list, and a brief description of proposed research. Applicants should also arrange for 3 or more letters of recommendation to be uploaded to the same URL (which can happen only after the applicant has created a dossier through Interfolio). Contact: Dr. Witold Skiba, Chair of Astro/Particle/Nuclear Physics Search Committee (witold.skiba@yale.edu) or Dr. Paul Tipton, Chair of the Physics Department (paul.tipton@yale.edu). Applications that are complete by [November 1, 2015](#) will be assured of full consideration.

The Department of Physics at Yale University invites applications for a tenure track junior faculty position in the area of experimental Atomic, Molecular, and Optical Physics, broadly defined. The successful candidate must have a Ph.D. or equivalent degree at the time of hire. The newly appointed faculty will join an active group of experimentalists in AMO, quantum information, and other closely allied areas, and will also benefit from interactions with Yale's world-class group of theorists in quantum many-body physics. We are especially interested in candidates whose research program centers on the physics of ultracold atom systems, but we will consider applications in any area of experimental AMO physics. Yale faculty members are expected to lead internationally recognized programs at the forefront of research.

An appointment with a start date of July 1, 2016 is expected at the Assistant Professor level, but senior candidates may be considered, pending administrative review. Applicants are encouraged to apply online at <http://apply.interfolio.com/30543> and must submit a letter of application, curriculum vita, publication list, and a brief description of proposed research. Applicants should also arrange for 3 letters of recommendation to be uploaded to the same URL (which can happen only after the applicant has created a dossier through Interfolio).

For further information about the position, contact Professor Leonid Glazman, Chair of the AMO Physics Search Committee (leonid.glazman@yale.edu) or Professor Paul Tipton, Chair of the Physics Department (paul.tipton@yale.edu). Applications that are complete by November 15, 2015 will be assured of full consideration.

The Department of Physics at Yale University invites applications for a faculty position in the area of theoretical condensed matter physics, broadly defined. The successful candidate must have a Ph.D. or equivalent degree at time of hire and will join an active group of theorists in physics and applied physics. Yale provides a unique research environment owing to its excellent group of theorists and experimentalists engaged in a wide range of many-body physics. The search is especially aimed at candidates whose research program centers on quantum condensed matter physics. Yale faculty members are expected to lead internationally recognized and forefront research programs.

An appointment beginning July 1, 2016 at the Assistant Professor level is expected, but senior candidates may be considered, pending administrative review. Applicants are encouraged to apply online at <http://apply.interfolio.com/30556> and must submit a letter of application, curriculum vita, publication list, and a brief description of proposed research. Applicants should also arrange for 3 letters of recommendation to be uploaded to the same URL (which can happen only after the applicant has created a dossier through Interfolio).

For further information about the position, contact Professor Jack Harris, Chair of the CMT Physics Search Committee (jack.harris@yale.edu) or Professor Paul Tipton, Chair of the Physics Department (paul.tipton@yale.edu). Applications that are complete by November 1, 2015 will be assured of full consideration.

**Lewis & Clark College - Tenure Track
Assistant Professor of Physics**



Assistant Professor of Physics: Lewis & Clark College, a private liberal arts college with 2,000 undergraduates, invites applications for a tenure-track assistant professorship in the Department of Physics beginning Fall 2016. Preferred teaching fields include introductory through advanced undergraduate physics. We prefer to hire a theorist or computational physicist, but we will consider applications from experimentalists. We seek candidates from all fields of physics and astronomy who can engage undergraduates in research and attract external funding. Ph.D. or terminal degree in physics required at the time of appointment as a tenure-track member of the faculty. Postdoctoral experience required. Potential for excellent teaching and research at an undergraduate institution are essential. Usual load is five courses per academic year and may include regular participation in the College's general education program. The College is committed to preparing students for leadership in an increasingly interdependent world, and affirms the educational benefits of diversity. See <http://www.lclark.edu/dept/about/diversity.html>

A complete application must include:

1. cover letter of application and a description of how the applicant's teaching and/or work in the campus community will contribute to a culture of inclusion and campus diversity
2. curriculum vitae
3. statement of teaching philosophy and evidence of teaching effectiveness
4. research interests and plan for involving undergraduates
5. sample of scholarship (published articles, and/or works in progress)
6. undergraduate and graduate transcripts (may be unofficial)
7. three letters of recommendation (uploaded separately by the referees)

Submit the above materials electronically via Interfolio <http://apply.interfolio.com/30622> Click "Apply" to create your free account. Review of applications will begin on October 5, 2015 and continue until the position is filled. Lewis & Clark College, located in Portland, OR, is an Equal Opportunity Employer. The College will conduct background checks on the finalists for the position.



California Polytechnic State University, San Luis Obispo, TENURE TRACK FACULTY POSITION(S)

PHYSICS DEPARTMENT, TENURE TRACK FACULTY POSITION(S). The Physics Department invites applications for full-time, academic year, tenure-track position(s) at California Polytechnic State University, San Luis Obispo, CA, beginning 9/15/2016. Primary duties and responsibilities are to teach undergraduate physics (and astronomy if interested) and to maintain an active professional development program. 1) General, requisition #103648: Field is open and applicant should be able to provide research experiences for undergraduate students. Applicants in fields that complement the existing research activities in the department and interdisciplinary programs at Cal Poly are encouraged to apply. 2) Physics Education Research, requisition #103774: Applicants in the area of PER with research that focuses on introductory physics courses; an additional focus on upper-division laboratories or teacher preparation is also desirable. A Ph.D. in physics or

related field is required and must be completed prior to start of appointment. Must provide evidence of (or potential for) high quality teaching. Rank and salary to be commensurate with qualifications and experience.

To apply, please visit WWW.CALPOLYJOBS.ORG, complete a required online faculty application, and apply to the appropriate requisition. Attach a cover letter, CV, a statement of teaching philosophy and interests, a statement of professional goals, and unofficial transcript. Please be prepared to provide the names and email addresses of three references when completing your application. Those selected as a finalist candidate may be required to submit a short teaching video. Successful applicants will be required to have official transcripts of highest degree sent by degree granting institution. Review of applications will begin October 1, 2015. Applications received after that date may be considered. For more information about the Physics Department please visit <http://www.physics.calpoly.edu>. Cal Poly is strongly committed to achieving excellence through cultural diversity. The university actively encourages applications and nominations of all qualified individuals. EEO.

Bates College - Two Assistant Professors in Physics



The Bates College **Department of Physics and Astronomy** invites applications for two tenure-track Assistant Professor positions starting in August 2016, one in any area of theoretical physics, the other in astrophysics. Applicants should have a Ph. D. in physics or a closely related field. Successful candidates are expected to teach the spectrum of courses required of physics majors, to establish active research programs involving undergraduate students, and to share with other members of the department responsibility for introductory physics and general-education courses in physics or astronomy. We anticipate that at least one of the positions will contribute to computational aspects of the curriculum.

Bates College is a highly selective liberal arts college located in Lewiston, Maine. The Department of Physics and Astronomy has six full-time faculty members and graduates 12 to 16 physics majors every year. Bates is committed to enhancing the diversity of the campus and the curriculum. We welcome applications from all individuals with the ability to contribute to the college's continuing commitment to social and cultural diversity, inclusiveness, and the transformative power of our differences. The search committee expects applicants to identify their strengths and experiences in these areas and describe how their research, teaching, and/or outreach can further this goal.

Application instructions: Review of applications will begin on Oct. 12, 2015 and continue until the position is filled. Applicants should submit the following: a letter of application, curriculum vitae, brief statements of teaching philosophy and research interests, copies of graduate and undergraduate transcripts, and three letters of recommendation. Employment is contingent upon successful completion of a background check.

San Diego State University - Tenure-Track Assistant Professor in Experimental Physics



The Department of Physics at San Diego State University is searching for a tenure-track faculty member in experimental physics, with an emphasis on instrumentation and detectors, effective in fall of 2016. The Department has strong groups in experimental optics, computational physics (including nuclear, particle, astroparticle/astrophysics and soft matter), medical physics, and experimental condensed matter. The successful candidate will conduct and supervise hands-on research with our undergraduate and master's students and be intimately involved with our upper-division and graduate experimental labs.

Candidates must demonstrate a strong commitment to excellence in teaching at both the undergraduate and graduate levels and be comfortable with all aspects of teaching our physics curriculum. Applicants must have a Ph.D. in physics or related field and postdoctoral experience. A strong record of scholarly publications is expected. The successful candidate is expected to pursue vigorously external funding to support his/her research with both undergraduate and graduate students. Candidates who wish to pursue interdisciplinary research efforts are also strongly encouraged to apply. The Department offers a bachelor's and master's degree in physics and a Ph.D. in computational science jointly with the Claremont Graduate University. Information on the Department and its various programs can be found at www.physics.sdsu.edu.

SDSU (www.sdsu.edu) is a large, diverse, urban university and Hispanic-Serving Institution with a commitment to diversity, equity, and inclusive excellence. Our campus community is diverse in many ways, including race, religion, color, sex, age, disability, marital status, sexual orientation, gender identity and expression, national origin, pregnancy, medical condition, and covered veteran status. We strive to build and sustain a welcoming environment for all. SDSU is seeking applicants with demonstrated experience in and/or commitment to teaching and working effectively with individuals from diverse backgrounds and members of underrepresented groups.

Applicants should apply via Interfolio at: <http://apply.interfolio.com/30798>

Review of applications will begin on October 15, 2015 and continue until the position is filled. Questions should be directed to Professor Fridolin Weber at fweber@mail.sdsu.edu.

The person holding this position is considered a "mandated reporter" under the California Child Abuse and Neglect Reporting Act and is required to comply with the requirements set forth in CSU Executive Order 1083 as a condition of employment.

A background check (including a criminal records check) must be completed satisfactorily before any candidate can be offered a position with the CSU.

Failure to satisfactorily complete the background check may affect the application status of applicants or continued employment of current CSU employees who apply for the position.

SDSU is a Title IX, equal opportunity employer and does not discriminate against persons on the basis of race, religion, national origin, sexual orientation, gender, gender identity and expression, marital status, age, disability, pregnancy, medical condition, or covered veteran status.



Mount Holyoke College - Tenure Track Assistant Professor of Physics

The Mount Holyoke College Physics Department (<https://www.mtholyoke.edu/acad/physics>) invites applications for a tenure-track position at the assistant professor level to begin fall 2016. We seek a candidate with a strong commitment to undergraduate teaching in a liberal arts environment, and to a vigorous, on-campus, externally-funded research program involving undergraduates that complements the existing research strengths of the department. A doctorate (anticipated or completed) in physics or a related field with the ability to teach across the physics curriculum is required. Excellent facilities and technical support for

research are available on campus, as well as access to state-of-the-art facilities at nearby University of Massachusetts.

Mount Holyoke is an undergraduate liberal arts college for women with 2,200 students and 220 faculty. Over half the faculty are women; one-fourth are persons of color. Mount Holyoke College is located about 80 miles west of Boston in the Connecticut River valley, and is a member of the Five College Consortium consisting of Amherst, Hampshire, Mount Holyoke, and Smith Colleges and the University of Massachusetts.

Mount Holyoke is committed to enriching the educational experience it offers through the diversity of its faculty, administration, and staff members. Mount Holyoke College seeks to recruit and support a broadly diverse faculty who will contribute to the college's academic excellence, diversity of viewpoints and experiences, and relevance in a global society. In furtherance of academic excellence, the College encourages applications from individuals from underrepresented groups in the professoriate, including African Americans, Hispanics, Native Americans, Alaska Natives, Native Hawaiians, other Pacific Islanders, first generation college students, individuals who have followed non-traditional pathways to college due to exceptional talent and motivation in the face of adversity, such as societal, economic or academic disadvantages, and individuals with a demonstrated commitment to applying and including diverse backgrounds and perspectives to learning, scholarship, service, and leadership in the academy.

The successful candidate will demonstrate competence in working with students who are broadly diverse with regard to race, ethnicity, socioeconomic status, gender, nationality, sexual orientation, and religion.

To apply, submit materials at <https://jobs.mtholyoke.edu>, including a cover letter addressing your interest in Mount Holyoke, a CV, a statement of teaching experience with emphasis on approaches to teaching at a small liberal arts college, and a research plan involving undergraduates. Applicants should also arrange to have three letters of reference submitted on their behalf. Electronic prompts to referees will be generated automatically after the completed application has been submitted. Applicants should address relevant experience and proposed strategies for mentoring members of a diverse student body. For further information please contact Prof. Mark A. Peterson, Department of Physics at mpeterso@mtholyoke.edu. Review of applications will begin October 17, 2015 and will continue until the position is filled.

Western Washington University - TENURE-TRACK ASSISTANT PROFESSOR

The Department of Physics and Astronomy at Western Washington University invites applications for a tenure-track assistant professor position starting September 2016. Applicants must hold a Ph.D. in physics, and must be currently active in research in condensed matter theory or materials theory.



Candidates must have a strong record of scholarship and commitment to developing sustainable undergraduate research opportunities. Post-doctoral research or equivalent experience is strongly preferred. Candidates should also have a demonstrated commitment to or potential for teaching excellence and enthusiasm for teaching undergraduates. A successful applicant will be expected to pursue an on-campus research program that will actively involve undergraduate students, and to apply for external grant support. Preference will be given to candidates who express an interest in developing active collaborations with existing faculty in the department and the college. Effective communication skills and an ability to work effectively with diverse populations are also required.

Applications must include (1) a detailed cover letter describing the applicant's background and addressing the required and preferred qualifications, including a short statement on how the applicant's past experiences (academic or non-academic) have prepared them to work effectively with diverse students and colleagues (2) a statement of philosophy and interest in teaching, (3) a detailed statement of proposed research with plans for undergraduate involvement, and (4) a full curriculum vitae including the names, addresses, e-mail addresses, and telephone numbers of three professional references. Do not send letters of recommendation; they will be requested only for semi-finalists. Review of applications will begin on October 30, 2015 and the position will remain open until filled. All application materials must be uploaded as a single pdf at <http://www.wvu.edu/jobs>. Inquiries may be addressed to the search committee chair, Dr. Janelle Leger, at janelle.leger@wvu.edu.

Fermilab - Associate Scientist / Wilson Fellow



Open Date: 08/06/2015 - Close Date: 10/30/2015

The Wilson Fellowship at Fermilab seeks applications from Ph.D. physicists of exceptional talent with at least two (2) years of post-doctoral experience. The Fellowship is awarded on a competitive basis and is intended to support strong, assistant professor-level physicists early in their careers. It provides unique opportunities for self-directed research in experimental physics through work on the Fermilab particle physics experiment of the candidate's choice. The Fermilab experimental program includes collider physics, studies of neutrino, muon, and astroparticle physics as well as R&D and planning for experiments at future colliders and high intensity beams.

The Wilson Fellowship provides an annual salary fully competitive with a university assistant professorship. The appointment is for an initial term of three (3) years and there exists the possibility for renewal for an additional two (2) years upon completion of a successful review after the first two (2) years; thereafter, the potential exists for eventual appointment without term limit.

Respects, understands and values individual differences that embody the principles of diversity.

Abide by all environment, safety, and health regulations.

Qualifications and Essential Job Functions

- Demonstrated ability to carry out independent research.
- Ph.D. in Physics or relevant subject.
- 2+ years of Post-Doctoral experience.
- Demonstrated experience in experimental particle or astroparticle physics.
- Established ability to lead and conduct experimental measurements.
- Excellent oral and written communication skills as demonstrated by presentations at conferences and a strong record of publications in professional journals.
- A distinguishing characteristic of Wilson Fellows is leadership manifested through intellectual, organizational, or technical accomplishments.
- Position may include prolonged computer work, visually demanding work and tight work schedules. In addition, the ability to travel by automobile and/or commercial air carrier both domestically and internationally may be required, as well as the ability and a willingness to work in underground experimental areas.

- Position may include work in confined spaces and/or with high voltage, and exposure to cryogenics and ionizing radiation.
- Personal Protective Equipment (PPE) may be required of the position, including the ability to wear eye/face, foot, hand and hearing protection and respirators.

Application Instructions

Each candidate should submit a curriculum vitae, a research statement (not to exceed five (5) pages) giving a focused description of his/her proposed research program as a Wilson Fellow, and should arrange to have four (4) letters of reference submitted via <https://academicjobsonline.org/ajo/jobs/5812>. The application deadline is Friday, October 30, 2015. All applications must be complete at that time. Unless prior arrangements have been made with the Chair, late material will not be considered.

Additional information is available at: http://www.fnal.gov/pub/forphysicists/fellowships/robert_wilson/. Questions may be submitted via email to wilson_fellowship@fnal.gov

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