


From: "Parks-Connell, Lisa Renee" <lrparks@iupui.edu>

Subject: **GAANN Fellowships at IUPUI**

Date: November 7, 2007 1:30:56 PM EST

To: "aeorel@ucdavis.edu" <aeorel@ucdavis.edu>, "aharonk@stanford.edu" <aharonk@stanford.edu>, "ajlankfo@uci.edu" <ajlankfo@uci.edu>, "akerib@cwru.edu" <akerib@cwru.edu>, "aldo@physics.siu.edu" <aldo@physics.siu.edu>, "aratyn@uic.edu" <aratyn@uic.edu>, "arie.bodek@rochester.edu" <arie.bodek@rochester.edu>, "bagger@jhu.edu" <bagger@jhu.edu>, "balzar@du.edu" <balzar@du.edu>, "batuski@maine.edu" <batuski@maine.edu>, "bauer@pa.msu.edu" <bauer@pa.msu.edu>, "bennhold@gwu.edu" <bennhold@gwu.edu>, "aratyn@uic.edu" <aratyn@uic.edu>, "bill@physast.uga.edu" <bill@physast.uga.edu>, "bodegom@pdx.edu" <bodegom@pdx.edu>, "bossek@unm.edu" <bossek@unm.edu>, "bulbul@brandeis.edu" <bulbul@brandeis.edu>, "buteau@adm.njit.edu" <buteau@adm.njit.edu>, "bwilking@umsl.edu" <bwilking@umsl.edu>, "ccs@astro.caltech.edu" <ccs@astro.caltech.edu>, "chair@phy.duke.edu" <chair@phy.duke.edu>, "chair@phys.washington.edu" <chair@phys.washington.edu>, "chair@physics.berkeley.edu" <chair@physics.berkeley.edu>, "chair@physics.rutgers.edu" <chair@physics.rutgers.edu>, "chair@physics.ucsd.edu" <chair@physics.ucsd.edu>, "chiang@physics.ucdavis.edu" <chiang@physics.ucdavis.edu>, "claudia.rankins@hamptonu.edu" <claudia.rankins@hamptonu.edu>, "coroniti@physics.ucla.edu" <coroniti@physics.ucla.edu>, "cseab@uno.edu" <cseab@uno.edu>, "dale@athena.physics.isu.edu" <dale@athena.physics.isu.edu>, "daniel.kroll@ndsu.nodak.edu" <daniel.kroll@ndsu.nodak.edu>, "daniel.prober@yale.edu" <daniel.prober@yale.edu>, "dappen@usc.edu" <dappen@usc.edu>, "dave@dave.ucsc.edu" <dave@dave.ucsc.edu>, "david.grier@nyu.edu" <david.grier@nyu.edu>, "dawn.meredith@unh.edu" <dawn.meredith@unh.edu>, "djalali@sc.edu" <djalali@sc.edu>, "dls@uab.edu" <dls@uab.edu>, "dodge@physics.odu.edu" <dodge@physics.odu.edu>, "doezema@phyast.nhn.ou.edu" <doezema@phyast.nhn.ou.edu>, "dorsey@phys.ufl.edu" <dorsey@phys.ufl.edu>, "dp5m@virginia.edu" <dp5m@virginia.edu>, "dvenable@howard.edu" <dvenable@howard.edu>, "dvh@uiuc.edu" <dvh@uiuc.edu>, "dwestpfa@aoc.nrao.edu" <dwestpfa@aoc.nrao.edu>, "edbert@mit.edu" <edbert@mit.edu>, "edlipson@physics.syr.edu" <edlipson@physics.syr.edu>, "e-fry@tamu.edu" <e-fry@tamu.edu>, "emccorma@brynmawr.edu" <emccorma@brynmawr.edu>, "fbd@rice.edu" <fbd@rice.edu>, "feigenb@mail.rockefeller.edu" <feigenb@mail.rockefeller.edu>, "ffjdc@uaf.edu" <ffjdc@uaf.edu>, "fmg@buffalo.edu" <fmg@buffalo.edu>, "gilman@HEPS.phys.cmu.edu" <gilman@HEPS.phys.cmu.edu>, "goldberg@buphy.bu.edu" <goldberg@buphy.bu.edu>, "goldman@sparthspa.umn.edu" <goldman@sparthspa.umn.edu>, "gpetrato@kent.edu" <gpetrato@kent.edu>, "graeme_dewar@und.nodak.edu" <graeme_dewar@und.nodak.edu>, "greg_benesh@baylor.edu" <greg_benesh@baylor.edu>, "griff@physics.wm.edu" <griff@physics.wm.edu>, "gsiannac@wpi.edu" <gsiannac@wpi.edu>, "harry.tom@ucr.edu" <harry.tom@ucr.edu>, "hayden@umbc.edu" <hayden@umbc.edu>, "hcrater@utsi.edu" <hcrater@utsi.edu>, "hirsch@physics.purdue.edu" <hirsch@physics.purdue.edu>, "horwitz@uta.edu" <horwitz@uta.edu>, "huth@physics.harvard.edu" <huth@physics.harvard.edu>, "iph1@columbia.edu" <iph1@columbia.edu>, "jamcneil@mines.edu" <jamcneil@mines.edu>, "james_egan@uml.edu" <james_egan@uml.edu>, "jansenh@physics.oregonstate.edu" <jansenh@physics.oregonstate.edu>, "jayanth@phys.psu.edu" <jayanth@phys.psu.edu>, "jdb20@cornell.edu" <jdb20@cornell.edu>, "jeff.martoff@temple.edu" <jeff.martoff@temple.edu>, "jkimball@albany.edu" <jkimball@albany.edu>, "Musser, James A." <jmusser@indiana.edu>, "jnorthby@uri.edu" <jnorthby@uri.edu>, "john.r.thorstensen@dartmouth.edu" <john.r.thorstensen@dartmouth.edu>, "joseph.scanio@uc.edu" <joseph.scanio@uc.edu>, "joseph.shields.1@ohio.edu" <joseph.shields.1@ohio.edu>, "jpw519@okstate.edu" <jpw519@okstate.edu>, "jwc@wuphys.wustl.edu" <jwc@wuphys.wustl.edu>, "kbecker@stevens-tech.edu" <kbecker@stevens-tech.edu>, "krugerm@umkc.edu" <krugerm@umkc.edu>, "blatt@clarku.edu" <blatt@clarku.edu>, "lhuwel@mail.wesleyan.edu" <lhuwel@mail.wesleyan.edu>, "luscombe@nps.navy.mil" <luscombe@nps.navy.mil>, "lynn.hatfield@ttu.edu" <lynn.hatfield@ttu.edu>, "machten@physics.umass.edu" <machten@physics.umass.edu>, "man40@ra.msstate.edu" <man40@ra.msstate.edu>, "mark@physics.ucsb.edu" <mark@physics.ucsb.edu>, "market@physics.utexas.edu" <market@physics.utexas.edu>, "marlow@princeton.edu" <marlow@princeton.edu>, "marshall@olemiss.edu" <marshall@olemiss.edu>, "matthews@wfu.edu" <matthews@wfu.edu>, "mccall@physics.unr.edu" <mccall@physics.unr.edu>, "mcdaniel@unt.edu" <mcdaniel@unt.edu>, "mcguire@tulane.edu" <mcguire@tulane.edu>, "mcneil@physics.unc.edu" <mcneil@physics.unc.edu>, "meiyin.chou@physics.gatech.edu" <meiyin.chou@physics.gatech.edu>, "mike@pa.uky.edu" <mike@pa.uky.edu>, "miller@chara.gsu.edu" <miller@chara.gsu.edu>, "millerja@uah.edu" <millerja@uah.edu>, "mini@physics.niu.edu" <mini@physics.niu.edu>, "mjsa@lehigh.edu" <mjsa@lehigh.edu>, "m-ulmer2@northwestern.edu" <m-ulmer2@northwestern.edu>, "mwp@phys.hawaii.edu" <mwp@phys.hawaii.edu>, "naik@physics.wayne.edu" <naik@physics.wayne.edu>, "naughton@bc.edu" <naughton@bc.edu>, "olness@mail.physics.smu.edu" <olness@mail.physics.smu.edu>, "orr@umich.edu" <orr@umich.edu>, "pac@clarkson.edu" <pac@clarkson.edu>, "paesler@ncsu.edu" <paesler@ncsu.edu>, "pandey@mtu.edu" <pandey@mtu.edu>, "parris@umr.edu" <parris@umr.edu>, "paul.pancella@wmich.edu" <paul.pancella@wmich.edu>, "perezjd@auburn.edu" <perezjd@auburn.edu>, "peterb@clemson.edu" <peterb@clemson.edu>, "phmcne@lsu.edu" <phmcne@lsu.edu>, "phsrcd@physics.emory.edu" <phsrcd@physics.emory.edu>, "physics.chair@vt.edu" <physics.chair@vt.edu>, "pierre.meystre@opt-sci.arizona.edu" <pierre.meystre@opt-sci.arizona.edu>, "pinsky@uh.edu" <pinsky@uh.edu>, "pritch@chuma1.cas.usf.edu" <pritch@chuma1.cas.usf.edu>, "ps@physics.utah.edu" <ps@physics.utah.edu>, "r.lowndes@neu.edu" <r.lowndes@neu.edu>, "r.shankar@yale.edu" <r.shankar@yale.edu>, "rehrllich@gmu.edu" <rehrllich@gmu.edu>, "rip@mail.physics.fsu.edu" <rip@mail.physics.fsu.edu>, "rkirby1@unl.edu" <rkirby1@unl.edu>, "rlal@aamu.edu" <rlal@aamu.edu>, "rmwa@midway.uchicago.edu" <rmwa@midway.uchicago.edu>, "robert.hengehold@afit.edu" <robert.hengehold@afit.edu>, "robert.nemanich@asu.edu" <robert.nemanich@asu.edu>, "rwhite@ua.edu" <rwhite@ua.edu>, "saul@astro.cornell.edu" <saul@astro.cornell.edu>, "scatto@gc.cuny.edu" <scatto@gc.cuny.edu>, "scott_sommerfeldt@vyu.edu" <scott_sommerfeldt@vyu.edu>, "selsler@physics.unlv.edu" <selsler@physics.unlv.edu>, "sgweg@slac.stanford.edu" <sgweg@slac.stanford.edu>, "snc@physics.wisc.edu" <snc@physics.wisc.edu>, "sober@cu.edu" <sober@cu.edu>, "sojka@cc.usu.edu" <sojka@cc.usu.edu>, "soper@physics.uoregon.edu" <soper@physics.uoregon.edu>, "sorensen@utk.edu" <sorensen@utk.edu>, "ssanders@ku.edu" <ssanders@ku.edu>, "ssingh@uark.edu" <ssingh@uark.edu>, "stwalley@uconnvm.uconn.edu" <stwalley@uconnvm.uconn.edu>, "sutherlandj@mail.ecu.edu" <sutherlandj@mail.ecu.edu>, "t.zerda@tcu.edu" <t.zerda@tcu.edu>, "talat@physics.ucf.edu" <talat@physics.ucf.edu>, "tan@het.brown.edu" <tan@het.brown.edu>, "thearn@nmsu.edu" <thearn@nmsu.edu>

"tom@physics.upenn.edu" <tom@physics.upenn.edu>, "tomsovic@wsu.edu" <tomsovic@wsu.edu>, "toswalt@fit.edu" <toswalt@fit.edu>, "turnshek@pitt.edu" <turnshek@pitt.edu>, "urbach@physics.georgetown.edu" <urbach@physics.georgetown.edu>, "vallieres@physics.drexel.edu" <vallieres@physics.drexel.edu>, "vanhamme@flu.edu" <vanhamme@flu.edu>, "venky@deas.harvard.edu" <venky@deas.harvard.edu>, "voss@physics.miami.edu" <voss@physics.miami.edu>, "wam@fau.edu" <wam@fau.edu>, "wangg@rpi.edu" <wangg@rpi.edu>, "weatherf@cennas.nhmfl.gov" <weatherf@cennas.nhmfl.gov>, "william.oliver@tufts.edu" <william.oliver@tufts.edu>, "wyeh@uidaho.edu" <wyeh@uidaho.edu>, "xinchou@utdallas.edu" <xinchou@utdallas.edu>, "zasadzinski@iit.edu" <zasadzinski@iit.edu>, "zwu@andromeda.rutgers.edu" <zwu@andromeda.rutgers.edu>

 1 Attachment, 153 KB

Dear Colleagues,

We are pleased to announce the GAANN Fellowships awards in Physics at IUPUI. We would appreciate it if you could post the attached flier in your departments, and distribute to interested students.

Yours Truly,

Dr. Gautam Vemuri
Professor and Chairman
IUPUI

Lisa Parks-Connell

Administrative Secretary
Department of Physics
402 N. Blackford St. LD 154
Indianapolis, IN 46202
w: 317-274-6900
f: 317-274-2393
e: lrparks@iupui.edu



GAANN FELLOWSHIPS IN PHYSICS

The Department of Physics at Indiana University-Purdue University Indianapolis (IUPUI) is considering applicants for GAANN doctoral fellowships in Physics.

The GAANN Ph.D. Fellowships in Physics

These prestigious fellowships are funded by a grant from the U.S. Department of Education's Graduate Assistance in Areas of National Need (GAANN) Program. The Department of Physics at IUPUI is looking for motivated and talented U. S. citizens and permanent residents with an outstanding academic record to pursue a doctoral degree in Physics. GAANN Fellows receive a stipend based on calculated financial need up to a maximum of \$30,000 per year. Additional funds are available to cover the cost of tuition, fees, travel to technical conferences, and other research needs.

Research topics

GAANN fellows will conduct research in one of the areas covered in our Department

- **Quantum and classical optics**

Quantum behavior of light with emphasis on squeezed states of light, quantum amplification processes, non-classical interference effects, and nonlocality.

Theoretical and experimental studies in statistical and nonlinear dynamical properties of lasers, biomedical optics.

- **Biophysics**

Magnetic resonance techniques for structure-function relationship in biomolecules.

Molecular organization and structures within membranes.

Theoretical and computational studies of the physical properties of bio-molecules.

Theoretical studies of elementary processes in biological systems from their inherent physical properties.

- **Condensed matter**

Properties at the nanoscale, including nanomagnetism and interaction of light with matter in reduced dimensionality systems.

Theoretical studies of strongly correlated systems.

- **Fundamental interactions**

Precise measurements in the Casimir regime.

Search for corrections to Newtonian gravity.

- **Physics education research**

Development of new methods of instruction in Physics

Fellowships will be offered to the highest-ranking applicants who are U.S. citizens, nationals, or permanent residents. Interested candidates should submit an application for graduate school at IUPUI for the Physics program and complete a Free Application for Federal Student Aid (FAFSA). Instructions for the online application are available at <http://www.physics.iupui.edu/application.html>. The FAFSA can be completed online at <http://www.fafsa.ed.gov>.

Please contact Ricardo Decca (rdecca@iupui.edu) for additional information and to start the application process.

Applications by students from traditionally underrepresented groups in science and engineering are strongly encouraged.

IUPUI
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