

# The Prime Press

## Department of Mathematics

Johns Hopkins University

Fall 2007

Volume 4, Issue 1

## Letter from the Chair

Dear Friends and Colleagues,

There have been many changes in the Mathematics Department recently. Morris Hunt took over the crucial role of Administrative Manager in May. Christina Bannon joins the department in the newly created position of Budget Analyst. As the new academic year begins, the department welcomes Mahta Khosravi, who begins her appointment as J.J. Sylvester Assistant Professor. Dr. Khosravi's research interests are in the areas of analysis, spectral geometry, and analytic number theory. There will be two visiting faculty for the spring semester: Dr. Ramona Anton from the Université de Paris-Sud who works on nonlinear waves, and Professor Henghui Zou from the University of Alabama who studies partial differential equations. In addition to these personnel changes, the Hartman Library has undergone a large expansion and renovation over the summer. It now serves as the general common area for department activities.



The Kempf Lecture Series continues to enhance the research mission of the Mathematics Department by bringing leading mathematicians from around the world to speak on their work. There were four Kempf visitors last year, and this fall the series continues with Professor Valery Alexeev from the University of Georgia, and Professor D.H. Phong from Columbia University.

Junior faculty, graduate teaching assistants, and accomplished undergraduates were recognized last spring through the Excellence in Teaching Awards, annual prizes that were started two ago from an anonymous gift, the William Kelso Morrill Award, and the J.J. Sylvester Awards. In addition, two members of the department were nominated for the Krieger School Excellence in Teaching Awards.

Finally, over the past year several of our faculty received significant recognition for their achievements. In June, Bill Minicozzi was named Krieger-Eisenhower Professor for his "outstanding role as scholar and teacher." Chris Sogge won the 2007 Diversity Recognition Award from the Johns Hopkins Diversity Leadership Council, and Chika Mese was promoted to Full Professor.

Sincerely,

Richard Wentworth

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# Bill Minicozzi appointed Krieger-Eisenhower Professor



On June 4, 2007, Bill Minicozzi was appointed to a Krieger-Eisenhower Professorship, the first such in the Department of Mathematics.

Established as part of Zanyvl Krieger's transformational 1992 endowment gift to the School of Arts and Sciences, the Krieger-Eisenhower Professorships are intended to recognize extraordinary faculty of the School of Arts and Sciences and to honor Mr. Krieger's long-standing friendship with Milton Eisenhower, the ninth president of the Johns Hopkins University. These professorships, awarded to faculty of distinction without

restriction to particular departments, recognize both extraordinary scholarly achievement and broad and effective engagement with the academic life of the Krieger School. Holders of the Krieger-Eisenhower Professorships embody the ideal of the scholar working within the academy, engaging in research of the highest quality while simultaneously enriching the intellectual lives of students and colleagues, both within the University and without. Congratulations, Bill!

## Awards

### Mathematics Excellence in Teaching

For the second year, the Mathematics Department has awarded one junior faculty member and two graduate teaching assistants with an Excellence in Teaching Award funding by an anonymous donor. The recipients were junior faculty member **Michael Ching** and grad students **Christine Breiner** and **Brian MacDonald**.

### J.J. Sylvester Awards

Each year the Mathematics Department chooses graduating seniors for this award recognizing their 'outstanding achievement' in mathematics. The recipients for the 2006-2007 J.J. Sylvester Awards for Undergraduate Excellence in Mathematics are **Matthew Sedlock** and **David Sher**.

### William Kelso Morrill Award

The William Kelso Morrill Award began in the spring of 1995 to honor graduate students who display a "love of teaching, love of mathematics and concern for students" similar to William Kelso Morrill. The winner of the award for 2007 is

### Michael Limarzi.

#### Professor of the Year

The title of Professor of the Year was awarded to **Chikako Mese** for the 2006-2007 school year. This award is given to an outstanding professor in the JHU Mathematics Department who is nominated and voted on by the graduate students.

#### KSAS Excellence in Teaching Finalists

The Mathematics Department was once again honored to have two members of the department nominated for Krieger School of Arts and Sciences Excellence in Teaching Awards. Graduate Student **Mike Limarzi** and Professor **Qiao Zhang** were both nominated by students to receive this award. This is the third consecutive year that Professor Zhang has received a nomination. The award recipients are chosen by committees that review letters of support submitted by undergraduate students, graduate students, faculty, and alumni.

Congratulations to the nominees!

### Diversity Recognition Award

Professor **Christopher Sogge** has been chosen by the Deans of Johns Hopkins University to receive the 2007 Diversity Recognition Award. This award was implemented in 2003 by the Diversity Leadership Council. The award recognizes faculty, staff, and students who demonstrate efforts to foster greater appreciation, advancement, and celebration of diversity and inclusiveness in the Johns Hopkins community. Congratulations Chris!

### Math Student Employees of the Year

This year the Mathematics Department is happy to award Jenifer Kaplan and Diane Shrewsbury the designation of Student Employees of the Year.

The spring awards ceremony can be viewed on the web at <http://www.mathematics.jhu.edu/new/awards2007.htm>

## Kempf Lecture Series Draws Prominent Mathematicians

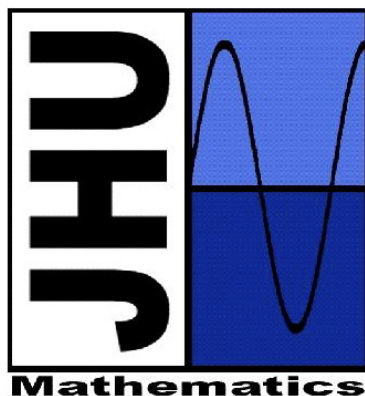
The Kempf Lecture series was a huge success for the Fall 2006-Spring 2007 school year. This lecture series was set up in honor of Johns Hopkins Professor George Kempf, renowned for his ability to make any topic engaging.

In Fall 2006, Yves André and Wilhelm Schlag were the visiting speakers. Yves André came from École Normale Supérieure of Paris and delivered three

lectures on Ambiguity Theory and Periods and Motives. Wilhelm Schlag visited from The University of Chicago and presented the topics of Schroedinger flow on surfaces of revolution and Dispersive estimates for wave equations and applications to stability of solutions.

In the Spring of 2007, we were excited to welcome Ravi Vakil from Stanford University. Professor Vakil delivered two

lectures entitled “A Geometric Littlewood-Richardson Rule” and “Murphy’s Law in Algebraic Geometry: Badly-Behaved Moduli Spaces”. Each lecturer was warmly received by our faculty and students. The Kempf Lecture Series has become an integral part of the department’s research activities and look forward to its continuation in the future.



## Four Conferences a Huge Success

As reported in last year’s newsletter the Math Department embarked on a challenging new course of holding four mathematics conferences in one year. This has been a busy and exciting year for the department as each conference ran smoothly and was able to bring together mathematicians from around the world to share their accomplishments in a variety of divisions.

Bill Minicozzi was one of the organizers for a conference on Geometric Analysis and Nonlinear Elliptic PDE’s which was held in October and drew between 15 and 20 participants.

The second conference this year was developed by Chris Sogge and Steve Zelditch entitled Global Harmonic Analysis. This conference brought together around 20 mathematicians in November 2006.

Our largest conference of the year, which included between 100 and 120 participants, was on Complex Cobordism in Homotopy Theory: Its Impact and Prospects. JHU Math faculty Mike Boardman, Jean-Pierre Meyer, and Jack Morava organized the event held in March during the universities spring break.

During that same week the department, with faculty organizer Chris Sogge, hosted the final conference of the year, the annual JAMI conference. The subject this year was Nonlinear Dispersive Equations, which drew between 40 and 50 individuals. Overall the department was proud to be able to host such a wide variety of conferences and is excited for the upcoming conferences.

## The Changing Face of the Math Department

Summer 2007 has brought with it two new staff members, as one leaves the department for new opportunities and a Budget Analyst is hired. The Mathematics Department is sad to see Department Administrative Manager, Christina Stanger say good bye. This spring, both Tina and Sabrina were nominated for a Krieger School of Arts and Sciences Staff Recognition Award. The award is designed to honor staff members that go above and beyond the outlines of their position to ensure the success of their departments. For the past two years, Tina, along with Sabrina have been dedicated to the creation of the online courses offered during the summer. It has been a very large project, but they never were discouraged and managed to organize a program that was such a success in its first year that it was expanded fourfold for

the second year. They received honorable mention for the commitment they demonstrated towards innovating the Mathematics Department.

Tina Stanger has been with the department for 8 years, coming to us from the Wilmer Eye Institute in 1999. In total she has been a Hopkins employee for 14 years, since 1993. Her career path has led her to a new position with the University of Maryland Baltimore County, where she will be working as a Grants and Contracts Manager in the Office of Sponsored Programs Administration. We would like to wish her the best of luck with her future endeavors and remind her that she is always welcome in the Math Department.

Morris Hunt has stepped into the role of Department Administrative Manager. Morris has been with the University for the past

7 years, and comes to us from the KSAS Dean's Office.

Finally, as the department continues to grow, both in the number of students that are accepted and faculty available to educate them, it has become essential to develop the position of Budget Analyst. This new position will focus on the daunting tasks of grant preparation, budget balancing, and account reporting. The creation of a fifth staff position demonstrates the strength of this department and our hopes for continued growth in the future.

Christina Bannon has joined the Math Department as the Budget Analyst. Christina has been with the University for the past 10 years as a budget assistant.



## Meet our Newest Full Professor!

The Department would like to congratulate Professor Chikako Mese who received her promotion from Assistant Professor to Full Professor on January 1st, 2007. Professor Mese is the first female Full Professor for the Johns Hopkins University Mathematics Department. After a complex process of internal and external reviews from Mathematics faculty as well as administrators, Chikako Mese was recognized as an outstanding professor and awarded the distinction of Full Professor. Congratulations Professor Mese!

## Special Thanks!

At this time, we would like to thank all of the people who contributed articles or information to produce the Fall 2007 edition of The Prime Press.

A special thank you goes out Diane Shrewsbury, a student employee, who dedicated considerable time to the publication.

*Merci*

# Math Club Helps Educate and Raise Red Cross Funding

This year, the math club has been active in creating opportunities for Baltimore City students to showcase their mathematical knowledge, as well as creating activities that raise money for the Red Cross malaria initiative. The Club's Officer's include Kihjuk Hong (President), Joe Tsao (Vice President), Jeff Lin (Treasurer), Jai Madhok and Dan Chang (Secretaries), Cindy Liu (Marketing Chair), and Lokman Chu (Public Relations Chair). They have been hard at work, with support from Professor Richard Brown of the Mathematics Department, to achieve their goal of promoting interest in math on campus at Johns Hopkins University.

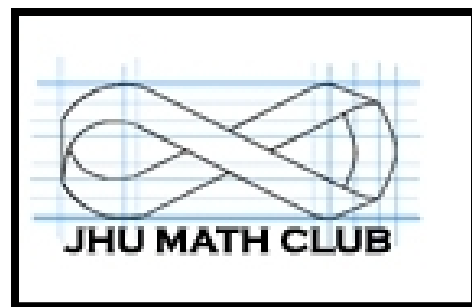
During the past school year, the club hosted the Johns Hopkins Math Tournament. 15 schools attended, totaling 100 participants. The tournament is a competition that takes place once a year for an entire day. The students test and the club members proctor and grade their responses determining a winner for the day. The club also creates problems and practice sets for the Baltimore County Math League each year.

The mathematical expertise of math club members is also put to the test as some take part in undergraduate mathematics tournaments such as the Virginia Tech and the William Lowell Putnam Mathematical Competitions. In addition, their knowledge of mathematics is used to help gifted youth through their affiliation with COGITO.org, an online community for academically talented youth. President, Kihjuk Hong, and Treasurer, Jeff Lin, have been invited to take part in an advisory meeting for COGITO and have also been active in their forums, answering questions for gifted youth about college and mathematics.

Not only does the math club assist in mathematics education for youth in Baltimore and through COGITO.org, but they have also been promoting math on the Johns Hopkins Campus. During the National Math Awareness Month, the club created a guess the mathematician competition on their website, which provided participants with the opportunity to showcase their knowledge of the founders of various instrumental mathematical theories.

They have also been creating a scavenger hunt, which will take place on September 15, 2007. The JHU Puzzle Hunt "is an annual puzzle competition held at Johns Hopkins University...[which] challenges each team to solve a large number of puzzles...[leading] to the honorable Fields Medallion hidden somewhere on campus." The Hunt is designed to get the campus involved in problem solving and to raise money for the Red Cross. 100% of the total proceeds from registration or team sponsorships will go to the Malaria Initiative of the Red Cross and the winning team will decide the charity that will receive the proceeds from the next Hunt. The Math Club would like to encourage anyone to come out and support the teams, or create a team to participate in the Hunt.

For more information please see their website at [the.jhu.edu/mathclub/](http://the.jhu.edu/mathclub/).



## JAMI News

After another successful year with JAMI, it is time to look ahead to our upcoming conference. Next year's JAMI conference will be organized by **Richard Wentworth** and **Chika Mese**, with support from Japanese organizer Koji Fujiwara of Tohoku University. The tentative title for this conference will be "Geometric Group theory and Riemannian Geometry". It will focus on the interaction between

two fields, concentrating on rigidity theorems via harmonic maps and mapping class groups and Teichmuller spaces from the view point of metric geometry. For more up-to-date information regarding the JAMI Conference, please refer to our website at <http://www.mathematics.jhu.edu/new/jami/futureprogram.htm>.



# Welcome to the JHU Department of Mathematics

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## Mahta Khosravi



Mahta Khosravi is coming to JHU as a new J.J. Sylvester Assistant Professor. She comes to the department from the Institute for Advanced Study in Princeton, New Jersey where she filled a Postdoctoral position for two years. She received her Ph.D. from McGill University in 2005, completing a thesis on “Spectral asymptotics on Heisenberg manifolds”.

Her main research interests include semiclassical analysis, spectral geometry, Harmonic analysis, analytic number theory, and Stochastic analysis. Some of Mahta’s published works include The remainder in Weyl’s law for  $n$ -dimensional Heisenberg manifolds, (Proceedings of the American Mathematical Society, Vol. 133, pp. 3561-3571), and Cramér’s formula for Heisenberg manifolds (Annales de l’Institut Fourier 55, no. 7, pgs 2489-2520).

Dr. Khosravi has been involved in many conferences, including a Johns Hopkins Analysis seminar in February 2006, where she gave a speech on “Some results on Weyl’s law for Heisenberg manifolds”. We look forward to her further participation in the research and teaching activities of the department. Welcome, Mahta!

## Ramona Anton



Ramona Anton will be a Visiting Assistant Professor for the period of January 1 – May 31, 2008. Ramona wrote her Ph.D. thesis, entitled “Nonlinear Schrödinger equation on a boundary domain,” at the University Paris XI, Orsay in 2006. She has lectured extensively on her work in France, Italy, the US, and at the Chennai Mathematical Institute in India.

## Henghui Zou



Henghui Zou will be a Visiting Associate Professor for the period of January 1 – May 31, 2008. Henghui received his Ph.D. in Mathematics from the University of Minnesota in 1992, and is currently an Associate Professor in the Department of Mathematics at the University of Alabama, Birmingham. Henghui’s research interests include partial differential equations and nonlinear analysis, as well as numerical techniques and mathematical finance and biology. He has published over 30 research articles.

## Is a Basic Math Education Important?



As a professor in the Johns Hopkins Mathematics Department, W. Stephen Wilson, has been engaged in the highest levels of providing a mathematics education, but his commitment to education does not end there. He has been actively involved in promoting awareness regarding the importance of developing a strong mathematics background during the kindergarten to 12th grade period of a child's education.

When asked why he believes that an extensive math education, including algebra, is necessary to helping students succeed later in life, he replied "if you want kids to have the option of becoming...an engineer...you have

to give them the option of learning what they need." He believes that it is essential to give children the building blocks needed in an elementary and middle school environment, so that when they reach high school they are best equipped to decide the best mathematics courses for them and their career goals.

The basis of Professor Wilson's involvement in education development has stemmed from his goals in educating his own child. The programs that his child was subject to were simply not up to his standards and as a math professor, Wilson is able to assist his own child in gaining the proper basic education, but he "worries about the other kids." Algebra is a topic that is not completely covered by a majority of primary math education sources. "All programs claim to involve algebra, but many of the people who develop the programs and choose the programs don't really understand what algebra has to be learned in order to move on to the next stage." Wilson would like to promote this type of awareness and help schools make more educated choices regarding the system of teaching math that is used in their districts. For this reason, he feels that it is important for the textbooks to be researched and chosen by a person who is an expert in

mathematics, rather than simply relying on past textbooks, or an uninformed source. He also stresses the importance of strong arithmetic skills in students, making them less dependent on calculators to perform basic calculations.

In an attempt to further his effectiveness in the fight to promote more successful primary and secondary mathematics education, Wilson served as a Senior Advisor for Mathematics for the Office of Elementary and Secondary Education in the U.S. Department of Education. He spent 8 months during the past year being heard and hopefully affecting change in our national education system. He has also educated many reporters locally on the downfalls of Maryland mathematics education, providing them with the opportunity to shed some light on the issue and inspire changes. For more information on Steve's fight for a better basic math education refer to his website at <http://www.math.jhu.edu/~wsw/index.html>.

## Cooperative Research Grant Approved



Associate Professor Caterina Consani, a member of the department since 2005, recently received a FRG Collaborative Grant from the National Science Foundation for a project entitled "Noncommutative Geometry and Number Theory". Co-recipients on this three-year grant include Henri Moscovici (Ohio State University), Matilde Marcolli (Florida State University), Philip L. Bowers (FSU), and Alain Connes (Vanderbilt University). This is the second FRG Grant awarded to the Mathematics Department.

# Student News

## Spotlight Senior

One of this year's graduates, Altair Peterson, was the recipient of a PURA research grant for the previous school year. PURA, or the Provost's Undergraduate Research Awards, is a prestigious grant at Johns Hopkins which provides students with the funding to undertake a project of their choosing. The awards, funded through a donation from the Hodson Trust, are an important part of the university's mission and its commitment to research opportunities for undergraduates. Altair, who is also very interested in economics, decided to use her grant to discover the truth behind wage inequalities between men and women, specifically in the Hopkins community. Her research was presented through a photo documentary of the women who are the source of the labor statistics, entitled "Women at Work". She believes that her mathematics education has assisted her in her project, not only by making the calculations easier, but by pro-

viding her with a "way to think", which she feels is most valuable.

Like many Hopkins students, Altair is very involved around campus. Despite the heavy course loads and completing her research project, she finds the time to commit herself to a variety of extracurricular activities. She worked on the Maryland Democratic Coordinated Campaign in 2006 and has been a member of the Hopkins Democrats since her freshman year. She is also a member of DISH, the Hopkins AIDS Alliance, Students for Choice, and the Pilipino Student Association. Aside from her membership in these activities she founded the Hopkins Donkey, a Democratic political newsletter that is completed by Hopkins students. Finally, she manages to find time to participate in intramural volleyball and kickball. Altair is not only a magnificent student, but she has committed herself to a many volunteer and extracurricular activities.

Altair graduated this year with her Bachelors of Arts degree in Mathematics and will be spending her first few years after graduation participating in the Teach America Program. Teach America is an organization that brings recent graduates to different places throughout the nation and world to teach students in the hopes of closing the achievement gap. Altair is very passionate about improving mathematics education and looks forward to spending time teaching High School Math, meanwhile receiving her Masters in Education. In the future she would like to have the opportunity to use her experience from teaching as a policy advisor for mathematics education. The Johns Hopkins University Mathematics Department is proud to showcase the experiences of one of our many undergraduates. Altair has been a terrific asset to the department during her time as an undergraduate and we wish her the best of luck

## Online Courses Expand for Summer 2007

As reported in last year's newsletter, the Johns Hopkins University Mathematics Department embarked on a challenging new endeavor, teaching Calculus I online! Due to the hard work by our staff and graduate students the course was a huge success and has led to the inclusion of Calculus II, III, and Linear Algebra as online classes offered over the summer of 2007.

Graduate Students Siddique Khan and Brian MacDonald, the instructors for the summer 2006 course, are encouraged by the success of their students in the first summer and look forward to the inclusion of three more courses for summer 2007. In their opinion some of the benefits of offering courses online are convenience as "students are never required to be physically on campus, flexibility through allowing students to "attend our live online lectures and sections or watch recordings of them", and students can "take the courses from anywhere in the world". The Math Department understands the need for many

students to work over the summer and through offering courses online they can go home and find a job for the summer in addition to partaking in a Hopkins mathematics course.

With any new endeavor there are bound to be challenges for those involved, Brian MacDonald sees one of the main challenges as "not being able to see the students' faces," which "makes the teaching experience less personal". However, the design of the course with multiple interactive functions allows the students to still receive personal attention.

As summer 2007 quickly approaches, Siddique voices his expectations for the addition of new courses, which includes "larger enrollment, particularly for Calculus III because the virtual classroom will offer better 3-D pictures of objects than the traditional chalk and blackboard diagrams from regular Calc III."

The addition of three new courses has provoked the interest of a larger number of graduate students. Siddique Khan will remain the head of online Calculus I, responsible for updates and development, but Susama Argawala will assist him with instructing. Calculus II has been developed by Michael Limarzi and Joel Kramer will be the additional instructor for that course. Brian MacDonald has taken on the responsibility of developing the Linear Algebra course with the assistance of Duncan Sinclair during the summer. Finally, Patrick Zulkowski has been creating Online Calculus III and will have Joe Cutrone to assist with teaching.

Online courses provide the Johns Hopkins Mathematics Department to reach a wider variety of students and provide graduate students with unique teaching experience. We are extremely proud of the work they have put into the project and would like to congratulate them on the success of their hard work.

# Student News

## A Rising Star

This year the Johns Hopkins University Mathematics Department was proud to welcome Tyler Krus at a freshman math major. Even though Tyler is a freshman he has been a member of the mathematics department since his senior year in high school as a participant in our Future Scholar's Program. This program provides gifted mathematics students in high schools throughout Baltimore to take college level math classes, which can then be applied towards a Hopkins degree if they matriculate after their graduation. For Tyler Krus this was the opportunity he had been looking for. He was extremely talented in mathematics and had surpassed the levels offered at his school, Loch Raven High School. For his entire senior year, Tyler would commute to Hopkins, taking two courses a semester. Before he had begun his freshman year, he had already completed Calculus III, Number Theory, Linear Algebra, and Differential Equations, a feat that no ordinary high school student could even dream of accomplishing. He feels that participating in the Future Scholars Program gave him a college perspective on how to study and a head up on what was to come for him academically. It was evident from the beginning that Tyler was going to be a star student in the department.

Not only has Tyler excelled in school and pursued a level of learning above and beyond the typical students experience, he has also held the prestigious position of a High School Apprentice in the SEAP program through the Department of Defense. SEAP is the Science and Engineering Apprenticeship Program, which offers talented students the chance to spend their summer researching with and learning from a mentor in the science and mathematics field. Apprentices have a unique opportunity to gain access to the world of defense and see where pursuing a math or science career might take them. After spending his junior year summer with SEAP, he was offered a position with the Oak Ridge Institute for Science and Education as a material research analyst and has been working for up to two days a week during the school year and full time in the summer for the Department of Defense in Maryland.

As a freshman at the Johns Hopkins University, he has decided to triple major in Economics, Physics, and Mathematics. He has spent his first year of college pursuing an active role in the Hopkins community as the President of the Class of 2010. As a sophomore he will be serving as Class Secretary. He has also been actively involved in AFSP when he is not doing school work or working with the Department of Defense. He is very interested in the combination of physics and mathematics, specifically through astrophysics. He has authored a paper entitled, Initial plasticity onset in Zr- and Hf-rich bulk metallic glasses during instrumented indentation, which is expected to be published in the Journal of Material Research this year. He has certainly made the most of his first year at Johns Hopkins and we look forward to hearing about his future successes.

After graduating with a triple degree in 2010, Tyler hopes to continue his education with a concentration on math and astrophysics. Through continued perseverance and determination, he would like to one day become a professor of math and/or astrophysics. Congratulations Tyler on your many accomplishments. It is wonderful to be able to show how one Hopkins Math Major can achieve so many wonderful things. We wish you the best of luck in the future.

# A New Home @ JHU: The Math Dept Welcomes 5 New Grads

Please join us in welcoming 5 new students to our graduate program.

Sinan Ariturk  
Matthew Burkemper  
Leili Shahriyari

Jingzhou Sun  
Ling Xiao

## 2007 Graduates

*Ph.D. Graduates*

Scott Zrebiec

*Texas A&M*

*M.A.*

Sung Rak Choi

*Current Ph.D. Student*

Joseph Cutrone

*Current Ph.D. Student*

Hamid Hezari

*Current Ph.D. Student*

Caleb Hussey

*Current Ph.D. Student*

Joel Kramer

*Current Ph.D. Student*

Vince Lyzinski

*JHU, Applied Mathematics*

Nicholas Marshburn

*Current Ph.D. Student*

Michael McGowan

*Current Ph.D. Student*

Duncan Sinclair

*Current Ph.D. Student*

Matthew Tucker

*Full-Time Employment*

*B.A./M.A.*

David Sher

*Current Ph.D. Student, Stanford*

*B.A.*

David Chu

Christopher Sereni

Michael Doman

Kimberly Strazdas

Thomas Fellows

Shankar Viswanathan

Aryanne Ferguson

Daniel Weinberg

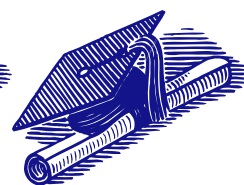
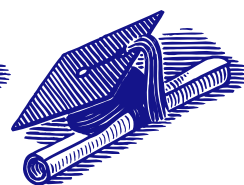
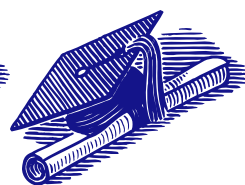
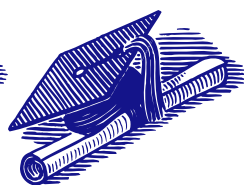
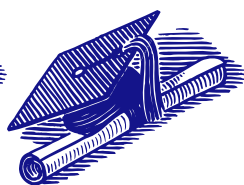
Sanjay Gopinath

Heungkook Yang

Altair Peterson

Kotaro Yoshida

Matthew Sedlock



# Alumni Reply Form

Please send us your current contact information and recent activities.

We'd be happy to include your activities in the next issue of The Prime Press.

Name \_\_\_\_\_

Name which you received your degree in (if different) \_\_\_\_\_

Mailing Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Degree(s) received \_\_\_\_\_ Year(s) \_\_\_\_\_

Telephone ( ) \_\_\_\_\_ Email \_\_\_\_\_ Web page \_\_\_\_\_

Current Occupation \_\_\_\_\_  
\_\_\_\_\_

Recent activities; news; comments \_\_\_\_\_  
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I would like to contribute to the programs of the Department of Mathematics at Johns Hopkins University.

My donation is enclosed. Please use it to fund:

\_\_\_\_\_ The Mathematics Gift Fund

\_\_\_\_\_ JAMI Endowment

\_\_\_\_\_ The George Kempf Memorial Fund

\_\_\_\_\_ The William Kelso Morrill Fund

\_\_\_\_\_ Other \_\_\_\_\_

*Please make checks available to the Johns Hopkins University.*

Please return your completed reply form to:

**By Mail**

Johns Hopkins University  
Department of Mathematics  
404 Krieger Hall  
Baltimore, MD 21218

**By Fax**

410-516-5549

**By Email**

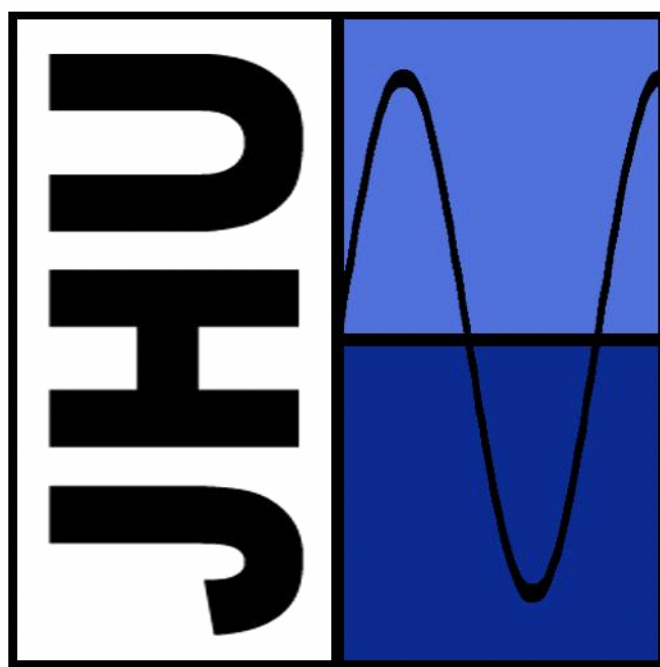
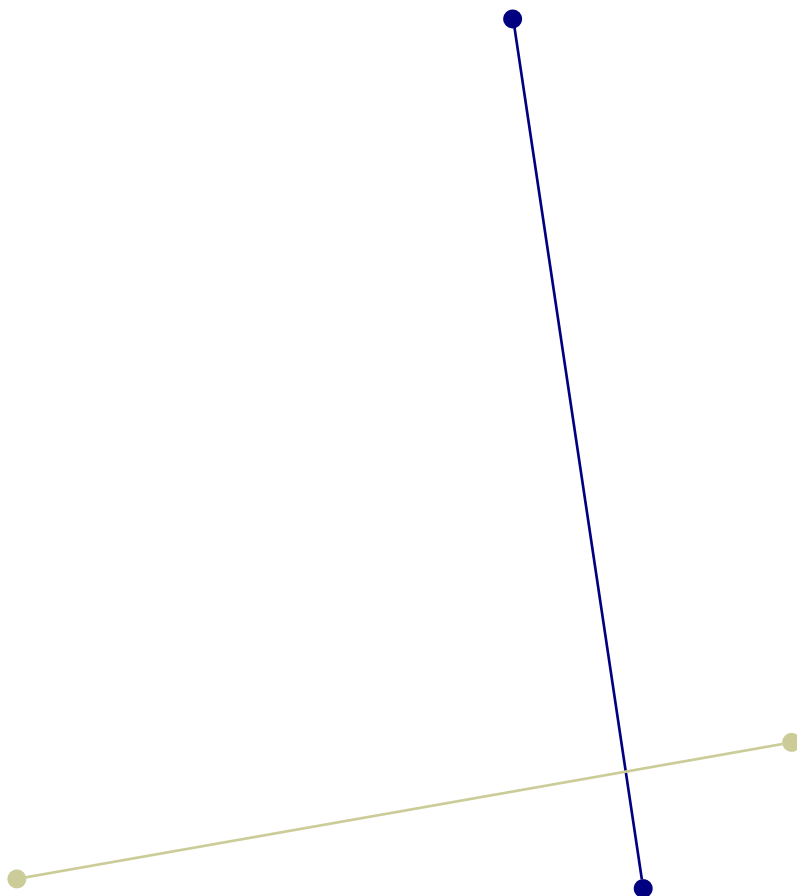
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