

The Orbiter

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MCNAIR SCHOLARS PROGRAM, UNIVERSITY OF NEW HAMPSHIRE



University of
New Hampshire

CONGRATULATIONS GRADUATING MCNAIR SENIORS!!



Amber Craft, Athletic Training
Mentor: Dr. Ronald Croce, PhD

Amber's research is titled, "A Comparison of Short-Time Fourier and Wavelet Transforms on EMG and MMG Frequency Spectrum During Fatiguing Muscular Contractions." Amber has been accepted to M.S. in Exercise programs at URI, UNH, LSU, and Ball State. She has decided to begin her graduate study at Ball State in the Fall! Amber was awarded full-funding including a tuition scholarship and a McNair Research fellowship (renewable).

Cayla Compton, Wildlife Conservation
Mentor: Dr. Paul Tsang, PhD

Cayla's research is titled, "The Use of Fecal Samples as a Non-Invasive Method for Assessing the Production of Hormones in Captive Mammals". Cayla has applied for a M.S. in Environmental Science at the University of Maine. She plans to defer her enrollment in graduate study until Fall 2016. Next year, she plans to gain work experience in public outreach of environmental education, regulating and implementing policies that are sustainable to communities and are of a low-disturbance to local wildlife, and animal husbandry of exotic animals.



Janice Disla, Psychology
Mentor: Dr. David Pillemer, PhD

Janice's research is titled, "Overparenting: A Cross-Cultural Analysis". Janice was accepted to UC-Merced's Ph.D. in Psychological Sciences program, with a concentration in developmental psychology, with full funding including a tuition scholarship and a research fellowship (renewable), \$18k/year, for the Fall of 2015!

Joel Ford, Chemical Engineering
Mentor: Dr. Jillian Goldfarb, PhD

Joel's research is titled, "Investigation of Competitive Adsorption Mechanisms of PCBs Onto Biomass-Based Activated Carbon". Joel plans to pursue a Ph.D. in Chemical Engineering for the Fall of 2016. Next year, Joel plans to relocate to MN to obtain industry experience prior to beginning doctoral study.



Mitchell Gates, Philosophy
Mentor: Kevin Healey

Mitchell's research is titled, "Gay Masculinities in Primetime Television". Mitchell is planning to pursue a career in web development and possibly a M.S. in Information Technology at the University of New Hampshire in Manchester. His long-term goal is to pursue a Ph.D. in Philosophy.

Adrienne Hill, Civil Engineering
Mentor: Majid Ghayoomi

Adrienne's research is titled, "Experimental and Theoretical Evaluation of Internal Loads in Underground Retaining Structures". Adrienne has been accepted to M.S. in Civil Engineering programs at NC State, University of Maryland-College Park, University of Illinois-Urbana Champagne, George Washington University, and Virginia Tech. She has decided to attend Virginia Tech in the Fall! She has received a tuition scholarship and a research fellowship, 16k/year!



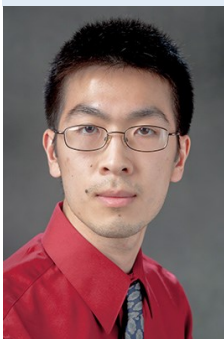
Olivia Jobin, Envir. Engineering
Mentor: Dr. Nancy Kinner, PhD

Olivia's research is titled, "Determining the Factors that Cause Submerged Oil to Become Re-Suspended in the Water Column". Olivia has been accepted to M.S. in Environmental Engineering programs at UNH, Tufts, Montana State, NC State, Cornell, Stanford, and Colorado State. Olivia will pursue graduate study at Colorado State with a full tuition scholarship and a renewable research fellowship of \$17k/year!

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Allen Ma, Mechanical Engineering

Mentor: Dr. Chris White, PhD

Allen's research is titled, "Designing a Thermally Conductive, Constant-Temperature Wall Plate To Be Used In a Small-Scale Boundary-Layer Wind Tunnel". Allen has been accepted to a PhD in Mechanical Engineering program at Tufts University with a full tuition scholarship and renewable Teaching Assistantship of 16k/year!

Stephanie Parisi, Biomed Sciences

Mentor: Dr. David Townson, PhD

Stephanie's research is titled, "Examining the Tumorigenic Ability of K+/K- HeLa Cells in vitro". Stephanie has applied to a M.S. to Ph.D. Bridge program at Fisk-Vanderbilt and plans to begin graduate study in the Fall of 2015. Her research interests include cellular biology and viral immunology.



Herbie Smith, Physics

Mentor: Dr. Per Berglund, PhD

Herbie's research is titled, "Del Pezzo Divisors, Calabi-Yau Manifolds and the Evolution of the Universe". Herbie is a National Goldwater Scholar and NSF Graduate Research Fellowship Recipient. He was 1 of 3 UNH students to receive the NSF award with a national application pool of approximately 16,000. (Herbie has been accepted to PhD in Physics programs at Virginia Tech, University of Wisconsin—Madison, and University of Texas-Austin. He will begin his doctoral study at UT-Austin this Fall with full-NSF funding.

Shersingh Tumber-Davila
Environmental Conservation

Mentor: Dr. Andrew Ouimette, PhD

Shersingh's research is titled, "Quantifying Carbon Allocation to Mycorrhizal Fungi by Temperate Forest Tree Species Across a Nitrogen Availability Gradient". Shersingh is a national Udall Scholar and Marble Scholar. He has been accepted to PhD in Earth Systems Science programs at UMASS Amherst, the University of Washington, and Stanford University. Shersingh will begin his doctoral study at Stanford this Fall with full funding (tuition scholarship and research fellowship, 38k/year).



CONGRATULATIONS TO THE SUMMER 2014 MCNAIR COHORT ON COMPLETING THEIR RESEARCH AND PRESENTING AT THE UNIVERSITY OF CALIFORNIA AT BERKELEY!



Left to right: Puskar Siwakoti ('16), Erin Varsalone (Assistant Director), Briah parchment ('16), Janice Disla ('15), Ram Subedi ('16), Subha Singh ('16), Brianna Hartford ('16), Aguedo De Los Santos ('16), Melissa Dongo ('16), Keshav Nepal ('16), Tien Dang ('16), and Sean Thoel ('16).

UNH MCNAIR SCHOLARS: ACADEMIC EXCELLENCE ACROSS THE US & ABROAD



Congratulations to our McNair scholars who presented their research at the University of Maryland at College Park!

The University of Maryland at College Park hosted a National McNair Research Conference between March 12-15, 2015. McNair Scholars, Ram Subedi, Chemical Engineering Junior ('16), Melissa Dongo, Psychology Junior ('16), Subha Singh, Anthropology Junior ('16), Aguedo De Los Santos, Chemical Engineering junior ('16), and Sean Thoel, History Junior ('16) successfully presented their research and networked with graduate schools within the D.C. area.

Left to right: Ram Subedi ('16), Melissa Dongo ('16), Subha Singh ('16), and Aguedo De Los Santos ('16).

BRIANNA HARTFORD — DENMARK



Brianna Hartford ('16), Occupational Therapy Junior, completed a McNair summer research fellowship during the summer of 2014 to which she conducted a "Criterion-Validity Study of the Sensory Processing 3- Dimensions Measure (SP-3D)". The SP-3D is a new assessment tool that measures sensory processing disorders among children. Brianna earned a \$5,000 Foley-Jackson Study Abroad Scholarship from the Center for International Education at UNH as well as \$4,000 in need-based scholarships from the Danish Institute for Study Abroad in order to study there in the Spring as part of the Child Development & Diversity Department. As part of this program, Brianna is in a core course called "Children in a Multicultural Context" with 21 other students from across the country preparing for careers working with children such as teaching, occupational therapy, psychology, etc. She has a practicum one day a week where she works in a Danish kindergarten with 3-6 year olds. Her program has gone on two study tours, one to Western Denmark and one to Istanbul, Turkey where she visited schools and learned about child development and education.

SEAN THOEL — RUSSIA



Sean Thoel ('16), History & Russian Junior, completed a McNair summer research fellowship during the summer of 2014 to which he investigated, "Socialist Industrialization: Engineering Soviet Mythology Through the Arts and Sciences During the Early Stalin Era, 1928-1941". Recently, Sean received an International Research Opportunity program (IROP) award to further his research abroad this summer 2015 in Russia. Sean's interdisciplinary research involves an examination of the relationship between the Realist production novels and the massive industrialization projects that transformed the Soviet Union during the beginning of the Stalin era in the late 1920s and 1930s. Sean's main focus is on the construction of the steel production complex at Magnitogorsk, a project commemorated in Valentin Kataev's novel Time, Forward! During the IROP this summer, Sean plans to visit archives and see firsthand how close the production novels' vision of Soviet industrialization became reality.

SUMMER 2015 RESEARCH FELLOWSHIPS & INTERNSHIPS



Left to right: Ram Subedi ('16), Tien Dang ('16), Aguedo De Los Santos ('16) and Subha Singh ('16).

Congratulations to our McNair Juniors who have secured competitive internships and research fellowships for summer 2015!

Tien Dang, Research Fellowship, University of Texas, A&M, Cancer Research

Aguedo De Los Santos, Internship-Apple

Ram Subedi, Internship-Conductive Compound, Engineering

Subha Singh, UNH Summer Undergraduate Research Fellowship (SURF), Genomics

MCNAIR ALUMNI SPOTLIGHT

Dr. David Lucander, PhD

Asst. Professor of Pluralism and Diversity in America, Rockland Community College
McNair Scholar Alum (2001) & Honorary Keynote Speaker, McNair Senior Celebration 2015

Dr. David Lucander received his PhD in African American Studies from UMASS Amherst in 2010. He is a 2001 UNH McNair Scholar Alum and will be an honorary keynote speaker at the annual McNair Senior celebration on Tuesday, May 5, 2015. Dr. Lucander has been a faculty member at Rochester Community College since 2009. He teaches Pluralism and Diversity in America, American History, and Civil Rights Movements, 1945-1975. He previously served as a Teaching Associate at the University of Massachusetts in Amherst, where he taught in the Department of Afro-American Studies. His fields of professional interest also include 20th Century African American History, the New Deal and World War II, and the Civil War and Reconstruction. Dr. Lucander completed two books that were published in 2014: *Winning the War for Democracy: The March on Washington Movement, 1941-1946* and *For Jobs and Freedom: The Speeches and Writings of A. Philip Randolph*.



SPECIAL THANKS TO THE MCNAIR ADVISORY COMMITTEE

The McNair Scholars Program wishes to acknowledge the McNair Advisory committee for their service and continued support of our program and scholars:



Faculty:

Dr. Cesar Rebellon, Sociology
 Dr. Per Berglund, Physics
 Dr. John Collins, Biomedical Sciences
 Dr. Michelle Leitchman, Psychology
 Dr. Ricardo Medina, Engineering
 Dr. Chris Reardon, Political Science
 Dr. Gonghu Li, Chemistry

Staff:

Sean McGhee, Director, OMSA
 Anna Metzger, Coordinator, CONNECT Program
 Dovev Levine-Leung, Academic Counselor

Students:

Tobi Afolayan, Graduate Student, International Affairs
 Adrienne Hill, Senior, Civil Engineering

SPECIAL THANKS TO RANDY SCHROEDER & BARBARA WHITE!

Randy Schroeder has been at CFAR/Student Support Services since 1997 and with various schools and departments since 1979. At the Center, his focus is on academic and personal support and major/career decision-making with undergraduates, and preparing for the Graduate Record Exam (GRE) and graduate school. Randy teaches "GRE Preparation" for McNair Scholars during their summer research fellowship at UNH. He is one of McNair's greatest supporters!



Upcoming Events

- May 1, McNair Summer Fellowship forms due
- May 5, McNair Senior Celebration, 5-7pm, Alumni Center
- June 1, McNair Summer Session Begins
- July 16-17, Tufts University Visit
- July 23-24, New England McNair Research Conference at UCONN
- July 24, Summer Session Ends
- July 31 –August 2, UC Berkeley McNair Research Conference



Dr. Barbara White (a.k.a. "Barb"), Associate Professor of Occupational Therapy and Executive Director of Undergraduate Academic programs, teaches "Intro to McNair Research" for McNair Scholars during their summer research fellowship experience at UNH. Barb has also served as a faculty mentor for McNair Scholars throughout the years. Barb is also one of McNair's greatest supporters!



MCNAIR CURRENT STATS

Since the UNH McNair Scholars Program began in 1991, it has served **314** students. Of those **135** alumni have gone on to receive a master's degree and **29** have earned a PhD degree. **17** alumni have gone on to earn other professional doctorates and **19** alumni are currently pursuing a PhD.

There are currently **35** UNH McNair scholars enrolled in the program and **19** Pre-McNair students are currently on their way to become McNair scholars next year!



Ram Subedi ('16) presenting his research at the University of Maryland at College Park (March 2015).

UNH McNair Alums: We want to hear from YOU!

Please let us know where you are in the world and the last degree you completed. Contact us at mcnair.program@unh.edu or (603) 862-0088

TRIO

**RONALD E. MCNAIR
POST-BACCALAUREATE
ACHIEVEMENT PROGRAM**

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