School of Public & International Affairs

2013-2014 Report of Faculty Research & Scholarship

Contents

p 17 faculty
  tenured & tenure-track

p 23 honors & awards
  for research, scholarship, instruction, & outreach

p 24 publications
  books or monographs authored, books edited, book chapters, articles, other publications

p 37 presentations
  papers presented at professional meetings & invited presentations

p 50 funded projects
The Land Grant University of the 21st Century must engage and inform the pressing public problems of our time: Rapid urban growth, crumbling infrastructure, climate change, declining states, economic development, and struggling democracies. These challenges have no boundaries and no finish line. Our efforts to inform and tackle these problems must be innovative, cutting edge, and different. This year the faculty, students and staff in VT SPIA continued to take important steps toward developing the knowledge, methods, and programs needed to cross boundaries, blend disciplines, collaborate and lead to effectively engage local, state, national and international challenges through research, teaching and outreach.

This report highlights the 2013-2014 Academic Year for SPIA, and provides an overview of the teaching, research and outreach of the School.

Anne Khademian
note from the director

Highlights

- **Visit with President Tim Sands:** In March 2014, SPIA hosted a visit by then incoming Virginia Tech President Tim Sands in Alexandria. During the visit we had the opportunity to share initiatives underway, as well as longer term efforts focused on building the collaborative capacity of the School. Joining the meeting was Jack Davis, Dean of the College of Architecture and Urban Studies, and Steve McKnight, Vice President of the National Capital Region.

- **RFFC-ISCE research grant competition in resilience:** SPIA launched its first research grant competition as part of the Ridenour Faculty Fellowship Conference (RFFC) to advance collaborative research opportunities for SPIA faculty. SPIA partnered with the Institute for Society Culture and the Environment (ISCE) in the grant competition, and the two winning proposal teams will present their work in progress in an October 2014 workshop in the new VT research facility in Arlington. The two winning teams are led by Robin Lemaire of CPAP, and Yang Zhang and Maggie Cowell of UAP. Both teams include faculty from other colleges in the University, and graduate students from SPIA.

- **Preparing the next generation of local government leadership:** CPAP’s certificate in Local Government Management continues to grow in enrollments across the Commonwealth. Led by Professor of Practice Bob Stripling and CPAP Chair Brian Cook, the program continues to exceed enrollment projections and plans are underway for an all on-line version of the certificate.

- **New Hires:** This Fall 2014, we will welcome Steve Hankey, PhD from the University of Minnesota’s Department of Civil Engineering, as an assistant professor in Urban Affairs and Planning, and Sara Jordan, PhD from Texas A & M, Department of Political Science, as an assistant professor in the Center for Public Administration and Policy. Both Steve and Sara bring strong and innovative research and teaching experience to SPIA.
• **Two Capitals, Two Degrees:** Leaders from Virginia Tech and the University of Kent Brussels approved an MOU establishing a dual degree program to provide students the opportunity for two internationally focused Master degrees in two years, based in two major world capitals. The initiative is led by Gerard Toal, Program Director for Government and International Affairs in SPIA in Alexandria, and Georgeta Pourchot, Director of the Two Capitals program.

• **Virginia Issues and Answers:** This year SPIA became the editor/publisher of Virginia Issues and Answers (VIA). VIA has been successfully published for nearly 2 decades by University Relations under the direction of Larry Hincker, serving as a forum for public policy issues in Virginia. Beth Offenbacker, SPIA’s associate director for social media and engagement, is the new editor of VIA, and Jaimy Alex is the managing editor. Our first issue in print and on our new web site ([www.via.spia.vt.edu](http://www.via.spia.vt.edu)) featured ethics reform in Virginia, voter access, and public private partnerships.

• **Partnership Leadership and Public Private Partnerships:** SPIA is taking the first steps toward developing professional programming focused on developing the leadership required to effectively utilize public private partnerships as an essential means to develop, build, and deliver services. Under the guidance of Emily Brock, program coordinator, and Rob Stalzer, Deputy County Administrator for Fairfax County and SPIA Professor of Practice for professional programming, the Partnership Leadership program is taking shape and will launch the first workshop this summer.

• **Collaborative Pedagogy in International Development:** UAP faculty Jocelyn Widmer and Ralph Hall are partnering with Akshay Sharma from the School of Architecture to continue developing a collaborative approach to international development education of undergraduate students in the UAP degree programs that involves community participation, industrial design, and project and grant proposal development.

• **Faculty, Staff and Student Recognition:** This year SPIA’s faculty and staff have also been recognized for excellence in scholarship and service. Professor John Browder was recognized for 25 years as a member
of the VT faculty, and **Sandy Graham**, graduate student coordinator for Urban Affairs and Planning (UAP) in Blacksburg, and administrative assistant to the program chairs, was recognized for her 25 years of Service to VT, as well. In the NCR, **Myriam Lechuga**, was recognized for her 10 years of service with Government and International Affairs (GIA) and UAP. **Sonia Hirt**, a member of the UAP faculty and the Associate Dean for Academic Affairs in CAUS, was promoted to full professor, and **Patrick Roberts**, an associate professor in CPAP, was recognized for Excellence in Scholarship through the College of Architecture and Urban Studies. **Emily Anne Van Houweling**, a graduate of the Planning, Governance, and Globalization doctoral program, was awarded Graduate School Honorable Mention for Outstanding Dissertation in the Social Science, Business, Education & Humanities Category, while 24 of our undergraduate students graduated with university honors.

This annual report provides summaries of the teaching and research missions of the school, and highlights several initiatives that illustrate the work of SPIA to advance public and international affairs through our distinctive interdisciplinary methods. For more information about the School, check out our School web site and the program sites @ [www.spia.vt.edu](http://www.spia.vt.edu).

### Teaching and Learning

SPIA student enrollments at the graduate and undergraduate levels were steady this past year, with enrollment growth in the certificate programs in the Center for Public Administration and Policy, in particular. Table 1 lists the number of academic majors enrolled in each degree program for Fall 2013 and Spring 2014, respectively. SPIA’s Center for Public Administration and Policy (CPAP), Government and International Affairs (GIA), and Urban Affairs and Planning (UAP) are nationally and internationally ranked graduate degree programs with strong
reputations among our peer institutions. This is due in large part to our outstanding faculty with far reaching reputations, and the tremendous effort of time and commitment invested by faculty across the three programs in continuously working to enhance graduate and undergraduate education in the School. The Washington Semester Program, and Sustainable Europe Program, both flagship undergraduate programs, continue to attract top students from across the University.

Innovation in the classroom remains a hallmark of SPIA teaching: From the introduction of the google glass to teach courses in international development and sustainability, to planning classes held in the Computer Augmented Virtual Environment (the CAVE), to student studios that place undergraduate and graduate students in real world settings for problem solving. SPIA faculty utilize advanced technology to develop student skills as well as to enhance connectivity across campuses, an on-line portfolio of classes at the graduate and undergraduate levels is developing, faculty research is incorporated into the curriculum for advanced student learning, and faculty pursue team and interdisciplinary approaches to teaching.

Table 1  SPIA Academic Majors Enrolled by Degree Program

<table>
<thead>
<tr>
<th>Undergraduate Academic Majors Fall 2013/Spring 2014</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Environmental Policy and Planning</td>
<td>78/78</td>
</tr>
<tr>
<td>Public and Urban Affairs</td>
<td>48/46</td>
</tr>
<tr>
<td>TOTAL Undergraduate Majors</td>
<td>126/124</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Graduate Academic Majors Fall 2013/Spring 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Master’s Degree Programs</strong></td>
</tr>
<tr>
<td>Public Administration</td>
</tr>
<tr>
<td>Public and International Affairs</td>
</tr>
<tr>
<td>Urban and Regional Planning</td>
</tr>
<tr>
<td>TOTAL Graduate/Master Degree Majors</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Doctoral Degree Programs</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Administration and Public Affairs</td>
<td>102/82</td>
</tr>
<tr>
<td>Planning, Governance, and Globalization</td>
<td>44/46</td>
</tr>
<tr>
<td>TOTAL Graduate/Doctorate Degree Majors</td>
<td>146/128</td>
</tr>
</tbody>
</table>
SPIA faculty had a successful year in research and discovery, producing 17 books and 27 book chapters, 57 journal articles and more than 50 additional papers and reports. SPIA faculty members continue to be leaders in the profession with editorial board service and significant presentations at conferences and workshops across Virginia, the US and the globe. Through the MI + SPIA initiative, we are working to significantly grow our grants and contracts portfolio to enhance faculty and student research opportunities, to engage organizations and communities working in the public interest, and to enhance our internal strategic resource base.

While there are many successful research initiatives underway and long standing successful research agendas of our post tenure scholars, of particular note for new beginnings and very promising results are the following: Ralph Buehler’s recognition by the Transportation Research Board for his work on transportation, climate change and sustainability; Laura Jensen’s innovative research on the rise of the contract state; Yang Zhang and Maggie Cowell’s work on community resilience and adaptive learning in a social media age; Trish Nickel’s work on critical theory and the nonprofit and voluntary sector, recognized by ARNOVA; Sonia Hirt’s forthcoming book on American land-use regulation, Zoned in the USA; Joel Peter’s work on Israeli foreign policy; Ted Koebel and Marilyn Cavell’s work on a plan for sustainable, affordable housing for the New River Valley; Giselle Datz’s work on pensions and capital markets in Latin America; Gerard Toal’s recently funded NSF work on attitudes and beliefs in Russian-supported de facto states and Eastern Ukraine in the wake of the Crimean annexation; Patrick Roberts’ work on the International Atomic Energy Agency and nuclear nonproliferation; Ariel Ahram’s work on counterinsurgency, development and the Iraqi marshes; Adam Eckerd’s agent based modeling of social capital and environmental justice; Shalini Misra’s work on conceptualizing and measuring transdisciplinary intellectual orientation; and Robin Lemaire’s work on an AGIL network approach to community resilience.
The tables below highlight scholarship and research for SPIA faculty. Table 2 highlights publications, presentations, and editorial leadership with a comparison across four years. Table 3 highlights SPIA research proposal submissions for 2013-2014 based on credit percentage of SPIA PIs, broken out for SPIA, the Institute for Policy and Governance (IPG) and the Metropolitan Institute (MI). SPIA proposal submissions have increased by more than $2,625,000 since 2012. The data reported represents new internal reporting systems developed through our MI + SPIA initiative to better track, plan and pursue research activities within the School. The tables are followed by a detailed list of research activities across the School for the 2013-2014 year.

Table 2 SPIA Faculty Scholarship Indicators, 2010-2014

<table>
<thead>
<tr>
<th></th>
<th>2010-2011</th>
<th>2011-2012</th>
<th>2012-2013</th>
<th>2013-2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books</td>
<td>10</td>
<td>23</td>
<td>19</td>
<td>17</td>
</tr>
<tr>
<td>Book chapters</td>
<td>25</td>
<td>44</td>
<td>36</td>
<td>27</td>
</tr>
<tr>
<td>Articles</td>
<td>73</td>
<td>41</td>
<td>75</td>
<td>57</td>
</tr>
<tr>
<td>Other papers and reports</td>
<td>37</td>
<td>58</td>
<td>46</td>
<td></td>
</tr>
<tr>
<td>Presentations</td>
<td>100</td>
<td>109</td>
<td>137</td>
<td>172</td>
</tr>
<tr>
<td>Editorial Boards</td>
<td>39</td>
<td>22</td>
<td>16</td>
<td>27</td>
</tr>
</tbody>
</table>

Table 3 SPIA Proposal Submissions, 2012, 2013, 2014

<table>
<thead>
<tr>
<th>Credit Org*</th>
<th>SPIA</th>
<th>IPG</th>
<th>MI</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$ Submitted</td>
<td># Proposals</td>
<td>$ Submitted</td>
</tr>
<tr>
<td>FY 2012</td>
<td>$1,773,369.00</td>
<td>11</td>
<td>$5,079,923.74</td>
</tr>
<tr>
<td>FY 2013</td>
<td>$3,267,401.90</td>
<td>14</td>
<td>$4,800,202.18</td>
</tr>
<tr>
<td>FY 2014</td>
<td>$4,398,871.67</td>
<td>9</td>
<td>$3,779,076.97</td>
</tr>
</tbody>
</table>

1 Based on Credit % of SPIA PIs
Table 4  SPIA 2013-2014 Research Expenditures

<table>
<thead>
<tr>
<th>Description</th>
<th>Preliminary FY 2013</th>
<th>FY 2013</th>
<th>Preliminary FY 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preliminary FY 2013 Internal VT Supported Expenditures</td>
<td>$51,640.93</td>
<td>$69,144.97</td>
<td>$103,007.93</td>
</tr>
<tr>
<td>Preliminary FY 2013 Sponsored Research Expenditures (inclusive of cost shares)</td>
<td>$276,037.21</td>
<td>$321,672.99</td>
<td>$253,166.68</td>
</tr>
<tr>
<td>Preliminary FY 2013 Research related expenditures</td>
<td>$327,678.14</td>
<td>$390,817.96</td>
<td>$356,174.61</td>
</tr>
<tr>
<td>Preliminary FY 2013 Overhead and Various Expenditures</td>
<td>$26,697.03</td>
<td>$37,463.40</td>
<td>$31,834.04</td>
</tr>
</tbody>
</table>

Research Overview

Known proposals in development

United State Institute of Peace. PI Ahram, Ariel with de Beurs, Kirsten (OSU). Tentative Title: Resilience, Recovery, and Recurrence after Civil Wars in the Drylands. $100,000.00. 10.00% OH. Pre-Award. Submission deadline 10/01/13.

Office of Planning, Research, and Administration – Head Start. PI Laura Jensen, with Phd Candidate Donna Sedgwick. $25,000. 0% OH. Pre-Award. Submission deadline 06/28/13.

Proposals and LOIs Submitted


**City of Alexandria.** PI Adam Eckerd. LOI: Fund for Human Services Evaluation Project. $100,000. Submitted 3/11/2013. DECLINED.

**Columbia University.** PI Ralph Hall with John Taylor. *CNH-Ex: Exploratory Project on the Coupled Dynamics of Building Occupant Energy Consumption, Global Climate Change and Local Climatic Conditions.* 59.6% OH. Submitted 11/20/12.

**Department of Energy.** John Randolph with Fred Krimgold. *Role of Local Government and Solar Industry Action in Accelerating the Diffusion of Solar Energy Technology.* $1,688,383.00. 59.60% OH. Submitted 10/04/12. DECLINED.

**Department of Health and Human Service - Asst Secretary for Preparedness and Response.** PI Patrick Roberts with Kris Wernstedt and Shalini Misra. *Transport Disruptions to Food and Health Supply Chains.* $613,203.00. 61% OH. Submitted 05/20/13.

**Gates Foundation.** PI Tom Sanchez. *Cities and Regions of the World. A Massive Open Online Course.* $49,996.00. 0% OH. Submitted 10/01/12. DECLINED.

IRC International Water and Sanitation Center. PI Ralph Hall with Eric Vance. $83,979. 10% OH. Submitted 08/06/12.

**MacArthur Foundation.** PI Randy Murch with Members of the SPIA faculty serve broadly across the School, College and University on committees and panels. Service across the profession is also Chris Bidwell, Federation of American Scientists. LOI: Science/Policy Interface in Nuclear Forensics. $450,000. Submitted March 1, 2013.

MacArthur Foundation. PI Theodore Koebel with Andrew McCoy. Impact of Energy Efficiency Standards on LIHTC Housing in Virginia. $495,185.00. 15.00% OH. Submitted 01/11/13.

National Nuclear Security Agency. PI Patrick Roberts with Ariel Ahram, Alireza Haghighat, Mark Pierson, Satish Kulkarni, Randy Murch. Integrated Nuclear Security and Safeguards Management Framework for the U.S. and the Middle East. $750,000.00. 61.00%. Submitted 02/27/13.

National Science Foundation RAPID. Wernstedt with Pamela Murray-Tuite (CEE). RAPID: Commuter Adaptation to Transportation Disruption in Hurricane Sandy’s Aftermath. $44,873.00. 59.60% OH. Submitted 11/20/12.

National Science Foundation SBE Doctoral Research Improvement Grant. PI Laura Jensen with PhD candidate Fatima Sharif. Elucidating the Drivers of Public Health Practice: The Interplay of Ideas and Institutions. $20,528. 61% OH. Submitted 01/15/13.


Office of Naval Research, MINERVA. PI Ariel Ahram. Security, Conflict, and Environmental Manipulation in the Middle East. $273,468. 61% OH, Submitted 01/04/13. DECLINED.


TranSystem. PI Ralph Buehler. Improving Transit Integration Among Multiple Transit Providers. $17,848.00. 59.60% OH. Submitted 07/26/12. DECLINED.

Winrock International. PI Ralph Hall with Eric Vance. Building Disaster-resilient communities in Southern Africa. $300,000.00. 26% OH. Submitted 02/15/13. DECLINED.
Internal VT Proposals

Virginia Tech Center for Innovation in Learning. PI Ralph Hall. *Peering into the Black Box of Learning via Cognitive Life Logging (Use of Google Glass in classroom).* $10,000.00. 0% OH. Submitted 05/20/13. AWARDED.

Institute For Creativity, Arts, And Technology (ICAT) SEAD (Science, Engineering, Art, and Design) Major Initiative Program. Ralph Hall (Co-PI) with Akshay Sharma and Jocelyn Widmer. *Social Impact Studios (SIS): Designing Empowerment – Design thinking for social impact.* $25,000.00. 0% OH. Submitted 05/06/13.

Institute For Creativity, Arts, And Technology (ICAT) SEAD (Science, Engineering, Art, and Design) Major Initiative Program. PI: Tom Sanchez with Peggy Lane, Gail McMillan, Julie Speer. SPIA – Academic Visibility Demonstration Project. $25,000. Submitted 11/25/2012.


The Institute for Society, Culture and Environment (ISCE). PI Anamaria Bukvic. $20,000. 0% OH.

The Institute for Society, Culture and Environment (ISCE). PI Derek Hyra. *Support for expansion of research in the Washington, D.C. region.* $200,000. 0% OH. AWARDED.

Interdisciplinary Graduate Education Program (IGEP). John Randolph. *Interfaces of Global Change (IGC).* Submitted 11/12/12. AWARDED.
**Outreach and Engagement**

It is the obligation of SPIA as a publicly funded school of public and international affairs to model the governance internally that we expect of government more generally, to offer insight and support for the most pressing problems of our time, and to be a voice for public service and the importance of research and knowledge in the policy making process. SPIA faculty and students and staff engage in Blacksburg and the Roanoke region, Alexandria and the National Capital Region, and across the globe through research, teaching, and service in multiple ways to strengthen communities, share knowledge, learn, collaborate and participate.

**Diversity**

SPIA is continuously engaged in efforts to enhance the diversity of thought, race, nationality, experience, and gender in the mix of students, faculty and staff, in the curriculum, in our research topics, and in our outreach and engagement efforts. Here, we feature several prominent efforts.

Over the last several years, Matt Dull has initiated a number of activities promoting the memory of unheralded Civil Rights pioneer and Alexandria, VA-native Samuel W. Tucker. He has taken hundreds of students and colleagues on “Tucker Walks” through Alexandria, past Tucker’s boyhood home, his office, and the Queen Street Library, where in August 1939, Tucker organized the first sit-in of the American Civil Rights movement. In a short 2010 article for the Virginia Tech NCR newsletter, he wrote, “It is among the fundamental issues students of public policy encounter. Sometimes what we DON’T observe tells us something important about the story as a whole.” During 2013-4, working with Audrey Davis of the Alexandria Black History Museum, Matt organized a series of public Tucker Walks - included in the City of Alexandria’s regular calendar of events. One of the Tucker Walks was even covered by Fox 5 News! This spring Matt, and CPAP MPA student Janet Arrechea, were appointed to a committee organized by Rose Dawson, Director
of the Alexandria Libraries, to help organize a 75th Anniversary celebration of the sit-in in August 2014.

Through a regional water point monitoring project, Jocelyn Widmer’s research is considering the post-earthquake infrastructure of Haiti, largely funded by NGOs and constructed with no regulatory framework in place, and the impact that this now-failing infrastructure has on public health outcomes at this regional scale—particularly as it relates to the recent but ongoing cholera epidemic. This research has a significant on-the-ground-coordination effort, as data is collected by a group of local Haitians trained by Jocelyn in community engagement strategies, public health outcomes, and GIS and Android-based technologies. All three of these skillsets are invaluable to the data collection phase, and at the heart of her research agenda, which more broadly considers the use of community engagement strategies and technology to improve public health outcomes in complex rural and urban developing-world contexts.

Adam Eckerd offered a course on organizational change for the Executive Leadership Institute (ELI) of the National Forum for Black Public Administrators, held in the Alexandria campus. Anne Khademian was appointed a member of the education committee for the NFBPA, an opportunity to participate with the NFBPA in the continued development for the ELI program and to work with the NFBPA to enhance and recruit African American students interested in public service careers, to our degree programs.


Joel Peters continues to be involved in a number of dialogue/track II initiatives aimed at promoting Israeli-Palestinian reconciliation. In his courses on Israeli-Palestinian conflict he focuses on questions of mutual understanding and reconciliation, and includes assigned readings and audio-visual materials both articles and lectures by Israeli and Palestinian scholars. In addition, the book he recently edited on the Israeli-Pale-
The Palestinian conflict includes a significant number of contributions by Palestinian and Israeli scholars.

Yang Zhang designs his class assignments/projects in a way to encourage students to understand the increasing complexity of social fabrics in communities. For instance, students were asked to develop a state of community report for the New River Valley. In this report, students were required to include data and discussion about, but not limited to, demographics, income, housing, education, and economic development characteristics of the New River Valley. In the natural hazards mitigation planning class, students were sent out to distressed neighborhoods in the Town of Blacksburg to interview residents about their perception and capacity to cope with potential environment hazards.
2012. GIA. Ph.D. Georgetown University (2008), government. Assistant Professor. Non-traditional components of security, human security, state formation/failure, militias and paramilitary groups, comparative political development, Middle East politics.

1988. UAP. Ph.D. University of Pennsylvania (1986), city and regional planning. Professor and CAUS Associate Dean for Academic Affairs. International development planning, environmental policy and planning, Latin American studies, environmental ethics, planning theory.


2008. CPAP. Ph.D. University of Maryland (1984), government and politics. Professor and Chair, CPAP. Public administration, public policy, american politics.


Adam Eckerd  2012. CPAP. Ph.D. Ohio State University (2011), public policy and management. Assistant Professor. Policy analysis, environmental policy, urban policy, public and nonprofit management, research methods, evaluation, American government.

Ralph Hall  2009. UAP. Ph.D. Massachusetts Institute of Technology (2006), technology, management and policy. Assistant Professor. Sustainable infrastructure systems.

Sonia Hirt  2005. UAP. Ph.D. University of Michigan (2003), urban and regional planning. Associate Professor and Chair, UAP. Land use policy and planning, environmental planning, sustainable metropolitan development, urban design, physical planning, urban governance, international planning.


1985. UAP. Ph.D. University of Sheffield (1972), geography. University Distinguished Professor and Sr. Fellow for International Advancement. Comparative analysis of urbanization and urban planning; social production of the built environment.

1990. UAP. Ph.D. Rutgers (1979), urban planning and policy development. Professor, UAP. Housing and community development, non-profit housing, housing policy, innovation and diffusion of affordable housing technology, redevelopment, real estate market analysis.

1990. UAP. Ph.D. Rutgers (1979), urban planning and policy development. Professor, UAP. Housing and community development, non-profit housing, housing policy, innovation and diffusion of affordable housing technology, redevelopment, real estate market analysis.
Robin Lemaire
2012. CPAP. Ph.D. University of Arizona (2012), public administration and policy. Assistant Professor. Organization networks and interorganization relations, public and nonprofit management, public and nonprofit organization theory, management and organization of health care systems.

Timothy Luke
1981. GIA. Ph.D. Washington University – Saint Louis (1981), political science. University Distinguished Professor in Political Science; Chair, GIA; and Fellow for Arts, Humanities, and Social Science. Environmental politics, cultural studies, comparative politics, international political economy, and modern critical social and political theory, history of political thought, contemporary political theory, comparative and international politics.

Shalini Misra
2012. Ph.D. University of California - Irvine (2010), planning, policy and design. Assistant Professor. Social and cultural consequences of the Internet and digital communication technologies, health and behavioral impacts of environmental stressors from virtual environments, environment and behavior studies, science of team science.

Patricia Nickel

Joel Peters

Joseph Rees

2006. CPAP. Ph.D. University of Virginia (2005), political Science. Associate Professor. Public policy, public organizations, federal agencies.


2010. UAP. Ph.D. Georgia Tech (1996), city planning. Professor. Transportation, land use, residential location behavior, and questions of social equity in planning; geographic information systems.

1989. UAP. Ph.D. University of Virginia (1985), government. Professor, and Director, Institute for Policy and Governance. Public administration, policy implementation, non-profit organizations and management.
Gerard Toal

Kris Wernstedt
2006. UAP. Ph.D. Cornell University (1991), city and regional planning. Associate Professor. Environmental planning, urban development, hazardous waste, water resources, hazards, GIS, spatial analysis.

Jocelyn Widmer
2012. Ph.D. University of Florida (2011), urban and regional planning. Assistant Professor. Public health, global health, interdisciplinary collaboration in participatory community development strategies, use of information and communication techniques for development, community development as cultural investment, development challenges and solutions.

Diane Zahm

Yang Zhang
2008. UAP. Ph.D. Texas A&M University (2006), urban and regional studies. Assistant Professor. Environmental planning; environmental science; research methods; fundamentals of GIS; advanced GIS applications; land use planning; planning methods; applied planning.
Honors and Awards

Wilma Dunaway
Keynote Address & Senior Scholarship Award
Political Economy of the World System Section
American Asociological Association
April 19, 2013

Sonia Hirt
Promotion to Full Professor
Virginia Tech
Spring 2014

Derek Hyra
Scholar of the Week
Office of the Vice President for Research
Virginia Tech
October 1, 2012

Ralph Hall
Best Business Book
2012 Green Book Festival
May 10, 2012

Google Glass Explorer Program
One of 8,000 people selected as the first recipients
of the device to integrate teaching and research
March 30, 2013

2013 Excellence in Scholarship Award
College of Architecture & Urban Studies
Virginia Tech
February 14, 2013

Paul Knox
Founding National Honor Roll
Inductees
Urban Affairs Association

Ted Koebel
Yang Zhang
International Faculty Development Program
Office of the Vice President for Outreach & International Affairs
Virginia Tech
February 22, 2013

Sonia Hirt
Promotion to Full Professor
Virginia Tech
Spring 2014
Publications

books and monographs

Maggie Cowell

Sonia Hirt

Derek Hyra

Paul Knox


Joel Peters

Patrick Roberts

Tom Sanchez
books edited

**Brian Cook**


**Wilma Dunaway**


**Anne Khademian**


**Paul Knox**


**Tim Luke**


book chapters

**Ralph Buehler**


**Brian Cook**

book chapters

Maggie Cowell


Giselle Datz

Wilma Dunaway


Sonia Hirt


Derek Hyra

Laura Jensen

book chapters

Michael Jones

Anne Khademian

Paul Knox


Robin Lemaire

Tim Luke


**book chapters**

**Trish Nickel**


**Joel Peters**


**Jesse Richardson**


**Patrick Roberts**


**Tom Sanchez**


**Max Stephenson**


**Jocelyn Widmer**

Ralph Buehler


Maggie Cowell

Giselle Datz

Wilma Dunaway


Adam Eckerd


Ralph Hall

Derek Hyra

Michael Jones


Paul Knox

Ted Koebel

Robin Lemaire
**Tim Luke**


**Shalini Misra**


**Trish Nickel**


**Joel Peters**


**Joyce Rothschild**


articles

Patrick Roberts


Tom Sanchez


Gerard Toal


Kris Wernstedt


**articles**


**Yang Zhang**


**Jocelyn Widmer**


**other publications**

**Ralph Buehler**


**Giselle Datz**

other publications


**Ralph Hall**


**Sonia Hirt**


Hirt, S. Review of C. Humphrey and V. Skvirskaja’s (eds.) “Post-Cosmopolitan Cities: Explorations of Urban Coexistence.” Slavic Review.
other publications

Paul Knox

Ted Koebel


Robin Lemaire

Shalini Misra


Trish Nickel


Joel Peters

Patrick Roberts
other publications

Tom Sanchez

Max Stephenson

Gerard Toal

Yang Zhang
Presentations

John Browder

Ralph Buehler


Brian Cook

**Maggie Cowell**


**Giselle Datz**


**presentations**

**Matt Dull**


**Wilma Dunaway**


**Adam Eckerd**
Eckerd, A. (Presenter) and S. Moulton (Co-presenter). “Complements Or Substitutes? B-Corporations, the Nonprofit Sector, and the Blurring Line Between the Market and Philanthropy.” Association for Public Policy Analysis and Management Conference, Washington, DC.

Eckerd, A. (Co-presenter), H. E. Campbell (Co-presenter), and Y. Kim (Co-presenter). “Social Capital and Environmental Justice: An Agent Based Model.” Association for Public Policy Analysis and Management Conference, Washington, DC.

Eckerd, A. (Presenter) and S. Moulton (Co-presenter). “Complements or Substitutes? B-Corps, the Nonprofit Sector, and the Blurring Line Between the Market and Philanthropy.” Association for Research on Nonprofit Organizations and Voluntary Action Conference, Hartford, CT.

Eckerd, A. (Co-presenter) and S. Eckerd (Presenter). “Running to the Lawyers or Reaching Consensus: Supply Chain Conflicts in Private and Public Management Contexts.” Decision Sciences Conference, Decision Sciences Institute, Baltimore, MD.

Eckerd, A. “Junior Faculty in the Classroom: Fresh Insights, Practices and the Wisdom of the First Few Years.” National Association of Schools of Public Affairs and Administration Conference, Washington, DC.


presentations

**Ralph Hall**


**Sonia Hirt**


presentations


Derek Hyra


Laura Jensen


Michael Jones

presentations


Anne Khademian


Tim Luke


Robin Lemaire

Lemaire, R. “The Ties to Practice: An Examination of Network Ties and Implementation of Evidence-Based Practices in a Smoking Cessation Network.” International Network for Social Network Analysis annual meeting, St. Petes Beach, FL.

presentations


Shalini Misra


Joel Peters

Peters, J. (2014). “Israel’s New Geopolitical Imaginations.” Key Elements of Israel’s Foreign Policy, Mitvim –The Israeli Institute for Regional Foreign Policies Institute for Applied Diplomacy, Tel Aviv University. (March 25).
Presentations


Jesse Richardson


presentations


Patrick Roberts


Wernstedt, K. (Presenter), P. Roberts (Author Only), J. Arvai (Author Only), and K. Redmond (Author Only). “Emergency Management in Rural America: Decision Makers’ Use of Climate Science in Flood Planning and Management.” Division of Civil, Mechanical and Manufacturing Innovation (CMMI) National Science Foundation, NSF, Boston, MA. (May 1).

presentations

**Tom Sanchez**

**Max Stephenson**
Stephenson, M. (Author only) and L. Kirakosyan (Lead author). (2014). “Arts-Based approaches and their implications for researchers in other fields.” Arts Based Research: An Interdisciplinary Dialog Special Interest Group at the 10th International Congress on Qualitative Inquiry University of Illinois at Urbana-Champaign. (May 21).


Stephenson, M. (Co-presenter) and L. Zanotti (Co-presenter). SPIA Ridenour Symposium, School of Public and International Affairs, Virginia Tech, Haiti and Resilience.


Gerard Toal


Toal, G. “Clashing Spheres of Influence? Russia, its Borderlands and the West.” NIRSA, National University of Ireland, Maynooth, Ireland.

Kris Wernstedt


presentations


Jocelyn Widmer


Widmer, J. (Presenter). “Global Health.” 2nd Year Medical Students, Carilion VT School of Medicine, Roanoke, VA.

Widmer, J. (Presenter). “One of These Things is Like the Other: Finding the Adjacent Possible in Global Health.” HealthPac Hylton Invited Lecture, Roanoke College, Roanoke, VA.

Widmer, J. “Scalability of a Community-Based Approach to Improve Water Point Access, Functionality, and Public Health in the Leogane and Gressier Districts of Haiti.” Public Health Grand Rounds, Virginia-Maryland Regional College of Veterinary Medicine’s Public Health Program, Blacksburg, VA.

Widmer, J. “People + Public Health + Places: A Call for Global and Local Action.” Cityworks (X)po, Roanoke, VA.

Diane Zahm

Funded Projects

**Ariel Ahram**

Security, Conflict, and Environmental Manipulation in the Middle East  
Sponsor: Virginia Tech, The Institute for Society, Culture and Environment  
Amount: $25,000.00  
(January 10, 2013 - May 2014).

**Ralph Buehler**

Regional Coordination in Public Transportation: Lessons for the United States  
Sponsor: Mid Atlantic University Transportation Center  
Amount: $100,000.00  
(September 2013 - September 2015).  
Impacts of BikeSharing on Economy and Travel Behavior  
Sponsor: Mid Atlantic University Transportation Center  
Amount: $38,500.00  
(August 2013 - May 2014).

**Maggie Cowell**

D.C. Initiative  
Margaret Cowell  
Sponsor: Institute for Society, Culture, and Environment  
Amount: $100,000.00  
(September 15, 2013 - May 1, 2017).  
Fostering Community Resilience through Adaptive Learning in a Social Media Age  
Margaret Cowell, Yang Zhang, William Drake, Christopher Zobel, Yuhong Li  
Sponsor: Ridenour Faculty Forum, Institute for Society, Culture, and the Environment (VT)  
Amount: $20,000.00  
Building a common language around the dynamic resilience of coastal communities  
Margaret Cowell, Christopher Zobel, Yang Zhang, Robert Weiss, Guney Olgun  
Sponsor: Institute for Society, Culture, and Environment -- Global Issues Initiative  
Amount: $20,000.00  
Building Resilient Regions  
Margaret Cowell  
Sponsor: MacArthur Foundation  
Amount: $10,000.00  
(January 1, 2013 - September 1, 2013).

**Giselle Datz**

The Political Economy of Pension Finance in Latin America  
Giselle Datz  
Sponsor: GII-ISCE  
Amount: $19,555.00  
(January 2014 - December 2014).
funded projects

Ralph Hall

Peering into the Black Box of Learning via Cognitive Life Logging
Ralph Hall (PI)
Sponsor: Networked Learning Initiatives, Virginia Tech
Amount: $10,000.00
(June 15, 2013 - Present).

Creating an International Program for Sustainable Infrastructure Development
Ralph Hall (PI), Michael Garvin (Co-PI), Shalini Misra (Co-PI)
Sponsor: University Grants Commission, India
Amount: $476,442.00
(August 1, 2012 - July 31, 2015).

2012 Mentoring Micro-Grant
Ralph Hall (PI)
Sponsor: AdvanceVT, Virginia Tech
Amount: $1,500.00
(February 15, 2012 - April 15, 2014).

Impact Evaluation for the Millennium Challenge Corporation-supported Rural Water Investment in Nampula, Mozambique
Ralph Hall (Co-PI), Jennifer Davis (Co-PI), Eric Vance
Sponsor: Millennium Challenge Corporation
Amount: $814,235.00
(May 2010 - April 5, 2014).

Impact Evaluation of the Tanzania Water Project
Ralph Hall (Advisor/Consultant), Jeffrey Alwang, Eric Vance, Charles Pendley, Mike Duthie
Sponsor: Millennium Challenge Corporation
Amount: $500,000.00
(May 1, 2012 - April 30, 2013).

Sonia Hirt

Center for Excellence in the Humanities
Sonia A Hirt
Sponsor: University of Sofia
Amount: $5,500.
(June 1, 2014 - August 1, 2014).

Global Suburbanisms
Sonia A Hirt
Sponsor: York University
Amount: $10,000.00
(August 1, 2012 - December 31, 2014).

Global Suburbanisms
Sonia A Hirt
Sponsor: York University
Amount: $22,660.00
(August 1, 2011 - December 31, 2013).

Paul Knox

Global Suburbanisms: Governance, Land, and Infrastructure in the 21st Century
Paul Knox
Sponsor: Major Collective Research Initiative (MCRI), Social Sciences and Humanities Research Council of Canada.
Amount: (c.$5,000)
(2013-14).

Ted Koebel

Housing the Richmond Region: Needs, Impediments and Strategies
Melissa Jones, Charles Koebel
Sponsor: Partnership for Housing Affordability
Amount: $57,943.00
funded projects

Developing a Plan for Sustainable, Affordable Housing for the New River Valley
Marilyn Cavell, Charles Koebel
Sponsor: U.S. Department of Housing and Urban Development
Amount: $97,679.00

Update of Housing Affordability Sourcebook and PLAYBOOK
Marilyn Cavell, Charles Koebel, Melissa Jones
Sponsor: Housing Virginia
Amount: $162,519.00
(June 1, 2009 - January 31, 2014).

Impact of Market Behavior on the Adoption and Diffusion of Innovative Green Building Technologies in Residential Firms
Marilyn Cavell, Andrew McCoy, Charles Koebel, Hazhir Rahmandad, Christopher Franck
Sponsor: U. S. Department of Housing and Urban Development
Amount: $363,475.00
(September 29, 2011 - September 28, 2013).

Housing Needs and Market Proposal for Surry County and Surrounding Areas
Marilyn Cavell, Charles Koebel, Melissa Jones, Andrew McCoy
Sponsor: Ferguson Grove CDC
Amount: $9,810.00
(May 10, 2013 - August 9, 2013).

Robin Lemaire
An AGIL Network Approach to Community Resilience
Robin Lemaire
Sponsor: RFFC/ICSE
Amount: $20,000.00

Tim Luke
Classical Realism Meets Critical Theory: Crisis, Modernity, and the Return of Humanity
Timothy Luke
Sponsor: Leverhulme Trust
Amount: $149,259.00

Shalini Misra
Conceptualizing and Measuring Transdisciplinary Intellectual Orientation
Shalini Misra
Sponsor: Institute of Society, Culture, and Environment
Amount: $10,000
(November 2013-June 2014).

BRIDGES: Building Resources through Integrating Disciplines for Group Effectiveness in Science
Shalini Misra
Sponsor: National Science Foundation
Amount: $400,000.00

D.C. Initiative
Shalini Misra, Derek Hyra
Sponsor: Institute of Society Culture and Environment, Virginia Tech
Amount: $100,000.00

Patrick Roberts
Grant for Developing Online Course Material
Patrick Roberts
Sponsor: Charles Koch Foundation
Amount: $5,000.00
(January 1, 2014 - Present).
funded projects

Unmanned Aerial System Airworthiness: A Case Study in Safety Certification for Complex, Non-Deterministic Systems
Patrick Roberts, Craig Woolsey, Mazen Farhood, Leigh McCue-Weil, Mayuresh Patil, Christopher Roy
Sponsor: ICTAS
Amount: $299,257.00
(July 1, 2013 - June 30, 2015).

Emergency Management in Rural America: Decision-Makers Use of Climate Science in Flood Planning and Management
Patrick Roberts, Kris Wernstedt
Sponsor: National Science Foundation
Amount: $399,597.00
(September 1, 2011 - August 31, 2014).

The International Atomic Energy Agency: From Auditor to Inspector; An Organizational Approach to Understanding Inspection Regimes
Patrick Roberts
Sponsor: ISCE - VT
Amount: $12,064.40

Sociolegal Disaster Workshop honorarium for Law and Society Panel and travel
Patrick Roberts
Sponsor: NSF Disaster Workshop
Amount: $1,000.00

Jocelyn Widmer, Gunney Olgun
Sponsor: Virginia Tech, Graduate School
Amount: $20,000.00

Gerard Toal
Attitudes and beliefs in Russian-supported ‘de facto’ states and Eastern Ukraine in the wake of the Crimean annexation
Gerard Toal, John O’Loughlin
Sponsor: National Science Foundation
Amount: $156,633.00

Kris Wernstedt
Seasonal Climate Signals” Developing a Community of Practice
Kris Wernstedt, Patrick Roberts
Sponsor: National Oceanic and Atmospheric Administration
Amount: $96,000.00
(September 1, 2013 - August 31, 2015).

Emergency Management in Rural America: Decision-Makers Use of Climate Science in Flood Planning and Management
Patrick Roberts, Kris Wernstedt
Sponsor: National Science Foundation
Amount: $399,597.00
(September 1, 2011 - August 31, 2014).
Total award: $399,597 total.

Commuter Adaptation to Transportation Disruption in Hurricane Sandy’s Aftermath
Kris Wernstedt, Pamela Murray-Tuite
Sponsor: NSF

Max Stephenson
Integrative Graduate Education and Research Traineeship Program in Disaster Risk Management and Resilience Science (DRM-IGERT)
Margaret Cowell, Christopher Zobel, Yang Zhang, Max Stephenson, Robert Weiss,
Yang Zhang

Fostering Community Resilience through Adaptive Learning in a Social Media Age
Yang Zhang (PI), Margaret Cowell (Co-PI), Christopher Zobel (Co-PI), William Drake, Yuhong Li
Sponsor: Ridenour Faculty Forum, Institute for Society, Culture, and the Environment (VT)
Amount: $20,000.00

Building a common language around the dynamic resilience of coastal communities
Christopher Zobel (PI), Yang Zhang (Co-PI), Margaret Cowell (Co-PI), Guney Olgun (Co-PI), Robert Weiss (Co-PI)
Sponsor: Institute for Society, Culture, and Environment -- Global Issues Initiative (GII)
Amount: $20,000.00

Developing an intergovernmental management framework for sustainable recovery following catastrophic disasters
Yang Zhang (PI)
Sponsor: National Science Foundation
Amount: $123,051.00
(September 1, 2010 - August 31, 2014).

Developing a Policy Framework for Community Resilience Building after Disaster
Yang Zhang (PI), John Randolph (Co-PI), William Drake
Sponsor: Institute of Society, Culture, and Environment
Amount: $17,272.00
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DEGREES OFFERED

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