



Office of Research & Sponsored Programs

ANNUAL REPORT

2016-2017 | WEST CHESTER UNIVERSITY





Message from the President

Last spring, shortly after I was inaugurated as West Chester University's 15th president, we released a new University mission statement that calls upon all of us at WCU to see ourselves as a community of educators, sharing the common goal of developing graduates who succeed personally and professionally and contribute to the common good. Our mission statement recognizes that learning is not just about what happens in the classroom, but also about what happens outside the classroom, in co-curricular activities, service-learning programs, and scholarly and creative pursuits. Engaging in research helps our students hone the skills they need — such as quantitative literacy and ethical decision making — to thrive in this rapidly changing workplace. In fact, student participation in research is a best practice leading to higher retention and graduation rates and professional advancement.

I'm very proud that research opportunities at WCU are not restricted to graduate students. From the Summer Undergraduate Research Institute to participation in fall and spring Research Days, our undergraduates are able to pursue substantial research questions, contribute to scholarly endeavors, and/or produce artistic or creative work, all while being mentored by faculty members in their field of study.

This year's annual research report spotlights a few of the many examples of what our faculty and students are achieving in laboratories, concert halls, and studios on our campus, in our community, and throughout the world. From kinesiology to special education, marketing to music, our faculty and students are doing work that makes a real difference. As we continue to grow WCU's Research and Sponsored Programs, we are very grateful for the financial support we receive from government sources, as well as from the many organizations and individuals who recognize the value of our scholarly and creative activities. Thank you for all that you do to support the vibrant learning community that is West Chester University.

Christopher M. Fiorentino, Ph.D.

President
West Chester University



Dr. Kevin Aptowicz,
Physics

A Message About Research, Scholarly and Creative Activities

Welcome to WCU's annual research report. Within these pages you will find a small sampling of the research, scholarly and creative activities conducted by our faculty and students across the broad span of learning offered at the five academic colleges of WCU.

To better reflect the mission and goals of WCU, the University created this mission statement in May: "West Chester University is a community of educators that develops graduates to succeed personally and professionally and contribute to the common good."

Preparing students to achieve this personal and professional success necessitates offering co-curricular experiences that grow and change along with a constantly changing world. Our students acquire transferable skills to adapt to the highly unpredictable work environment they face, where some careers become obsolete while others emerge at a rapid pace. Our professors stay active in their fields and through the co-curricular experiences they offer, our students are provided opportunities to apply and grow their knowledge and are thus better prepared as they face complex situations both personally and professionally.

The WCU community recognizes that active research is essential across all academic disciplines, whether in the arts, sciences, business, health or education sectors. Our faculty establishes active partnerships within the University as well as with academic and industrial organizations outside of

the University. It is through this support, as well as through the financial support in the forms of grants and contracts from state and federal agencies such as NASA, the National Science Foundation and the National Institutes of Health, that WCU is able to provide a learning environment rich with research, scholarly and creative opportunities.

The Office of Research and Sponsored Programs promotes, facilitates and encourages this environment by:

- Finding funding, both internal and external, for faculty
- Providing assistance in proposal development, submission, budget preparation and the management of sponsored projects
- Assisting in research compliance
- Identifying potential collaborators at WCU and elsewhere

We applaud the accomplishments of the faculty and students of WCU and are proud to highlight their outstanding achievements in this, our latest WCU research report.

Vishal Shah, Ph.D.

Associate Vice President (Interim),
Office of Research and Sponsored Programs



Dr. Josh Auld

Biology

Dr. Josh Auld's research focus is on exploring how life-history and mating-system evolution interact, not just because they are both related to reproductive fitness, but also because they involve many of the same traits. Particularly, he is interested in studying how genetic and environmental factors interact to determine the expression of traits and ultimately reproductive fitness. Dr. Auld works with a variety of tools and systems to address questions at the intra-specific (often intra-population) and inter-specific levels. Throughout all of his research, Dr. Auld has had an interest in how reproductive traits evolve and how they are adapted to natural, variable environmental conditions. Thus, the evolution of adaptive phenotypic plasticity is a theme that runs throughout a majority of his work.



Dr. Teresa Donze-Reiner

Biology

Dr. Teresa Donze-Reiner's research interests include understanding how plants defend themselves against insect pests and pathogens, including insects and viruses. She has worked on many model plant systems such as arabidopsis, soybeans, switchgrass, and sorghum to identify key genes that are necessary for resistance against biotic stresses. Her recent work has focused on understanding the roles of calcium dependent protein kinases in the defense response of susceptible and resistant switchgrass cultivars against greenbug aphids infestations. Dr. Donze-Reiner also is involved in a collaboration project with the University of Nebraska to identify lines of switchgrass with reduced concentrations of lignin.



Dr. Oné Pagán

Biology

Dr. Oné Pagán's research interests include planarian flatworms, which show promise in neuropharmacological research. His laboratory uses planarians as model organisms to screen for naturally-occurring or synthetic psychoactive compounds. His group is one of the few research groups worldwide with an interest in characterizing planarian pharmacology, particularly with the objective of integrating developmental/regeneration biology with pharmacology. Dr. Pagán is the author of *The First Brain: The Neuroscience of Planarians*, published in 2014 by Oxford University Press, and *Strange Survivors: How Organisms Attack and Defend in the Game of Life*, published in 2018 by BenBella Books.



Dr. Cheryl Gunter
Communication Sciences and Disorders

A scholar in the Scholarship of Teaching (SOT) Lab, Dr. Cheryl Gunter, in collaboration with her SOT Lab partners – Drs. Koenig, Grillo, and Kim – and with a local Speech-Language Pathologist, Mr. Bob LeJeune, has pursued the topic of critical thinking in clinical practice and clinical administration for the past decade. Gunter and LeJeune have developed and validated a Critical Thinking Scale that allows them to evaluate four levels of critical thinking competence across five dimensions of critical thinking skill in clinical students, clinical practitioners, and clinical administrators. In a series of studies, they have documented the level of critical thinking demonstrated in the completion of various clinical service delivery tasks for simulated patients. The Gunter and LeJeune work has resulted in 26 state and national conference presentations, as well as in the publication of the book, *Critical Thinking in Clinical Practice in Speech-Language Pathology*. Current research looks at which approaches to instruction in critical thinking skills are most effective in the preparation of future clinical practitioners.



Dr. L. Meghan Mahoney
Communication Studies

Associate Professor L. Meghan Mahoney is coauthor of the textbook, *Strategic Social Media: From Marketing to Social Change* (Wiley, 2017). Her research examines issues related to new media audiences, social media, and marketing messages for behavior and social change. Most recently, Dr. Mahoney's work investigates relationships between and among family communication patterns, political self-efficacy, information seeking and sharing, and political participation. This research will help to explain how family helps mobilize citizens towards more active political and civic participation. Dr. Mahoney's recent research also examines meta trends in mass media measurement, specifically to explore the many ways in which digital and social media have an impact on the field of media management.

Dr. Julie Tennille
Graduate Social Work

Dr. Julie Tennille is an Assistant Professor in the Graduate Social Work Department. One line of Dr. Tennille's research focuses on preparing social workers and other health professionals to deliver Motivational Interviewing (MI) in community settings. MI is conceptually a harm-reduction prevention approach that addresses social determinants of health by offering alternatives to zero-tolerance practices and policies. MI is in lockstep with social work values and the code of ethics and is broadly applicable to the variety of populations and types of settings where social workers practice. Dr. Tennille is also involved with the Temple University Collaborative on Community Inclusion. The goal of this project is to build capacity to deliver recovery-oriented services to persons coping with mental health conditions.





Dr. Whitney Katirai, Dr Matin Katirai, and Dr. Harry Holt

Dr. Whitney Katirai
and **Dr. Harry Holt**, Health
Dr. Matin Katirai,
Geography and Planning

Assistant Professors Whitney Katirai, Harry Holt, and Associate Professor Matin Katirai's research focuses on identifying populations in rural Pennsylvania that have limited access to medication-assisted treatment (MAT) for opioid addiction. Nationwide, including Pennsylvania, the country is facing an epidemic of drug overdose deaths. The professors' research project was funded by the Center for Rural Pennsylvania for \$81,271. The project goals are estimating the current number of Medication Assisted Treatment (MAT) programs in rural PA, conducting a cost reimbursement analysis, and identifying barriers and opportunities related to the expanded use of MAT. Their interdisciplinary team has collected mixed-methods data that will be used in the analysis, as well as utilizing Geographic Information Systems in conducting a spatial analysis that will help them to identify populations in rural Pennsylvania that have limited access to MAT services for opioid addiction.



Dr. Nadine Bean
Graduate Social Work

Associate Professor Nadine Bean was awarded more than \$1.6 million in funding from the US Department of Health and Human Services for a Behavioral Health Workforce Education and Training program. Over the next four years the project will provide placements, training, and stipends to advanced MSW and MEd Counseling students positioned in settings that integrate primary care with behavioral health. The goal is to expand the number of social work and school counseling professionals working in integrated care settings with vulnerable and medically underserved populations. The project will bring together organizations and community partners in Southeastern Pennsylvania, Camden, New Jersey, and Wilmington, Delaware.



Dr. Lisa Lucas

Early & Middle Grades Education

Associate Professor Lisa Lucas's recent research explores how incorporating mindful strategies can help reduce stress by fostering self-care, and work-life balance. Her research premise is that: practicing "presence" facilitates awareness and self-regulation which helps cultivate and maintain a calm, focused mind. This provides the space for optimal teaching and learning. As a result, educators become present, and more emotionally responsive which positively impacts student engagement. Educators who are balanced themselves are more inclined to be thoughtful leaders and change agents and will seek sustainable solutions to the challenges that face our educational systems. Dr. Lucas's research also incorporates how coaching and mentoring impacts work performance, productivity and overall well-being. Dr. Lucas is the recent author of *Practicing Presence: Simple Self-Care Strategies for Teachers* published by Stenhouse Publishers.

Dr. Katherine Norris

Early & Middle Grades Education

Professor Katherine Norris has focused much of her research on building culturally responsive relationships between families and schools, literacy, and diversity in education. Most recently, she has co-edited a textbook *Social Justice and Parent Partnerships in Multicultural Education Contexts* due to be released January 2018. Continuing her research on diverse families and school partnerships, Dr. Norris is working alongside Dr. Beatrice Adera collecting home and school engagement surveys and face-to-face interviews from parents from diverse backgrounds. This project intends to give a voice to families that otherwise may not have a voice. This research is being funded by a grant from the WCU College of Education and Social Work. In addition to the academic writing, Dr. Norris is currently self-publishing a children's book which focuses on adopted families. Dr. Norris has pursued service positions which enable her to work on issues of social justice and multicultural education. As part of The Frederick Douglass' Institute's Education and Community Outreach Program, Dr. Norris has created multicultural literacy programs with elementary schools in Philadelphia, Chester, and Coatesville.

Dr. Pauline Schmidt

English

Professor Schmidt, Associate Professor and the Associate Director of the Pennsylvania Writing & Literature Project, is a leader in the field of English Education through her publications, presentations, and her work with students. Her research concentrations include the infusion of the dramatic arts in English Education, diversifying the canon of literature for children's and young adult literature, and studying the impact of new literacies on curriculum and teacher preparation.

Dr. Schmidt, already established in the field, continues to publish her research in top tier journals. She also continues to be an important voice in her field by serving as a column editor for *English Journal*.

Dr. Schmidt also uses her research as an opportunity to mentor and professionalize undergraduate BSED majors, as demonstrated by her recent national presentations which she co-presented with students.

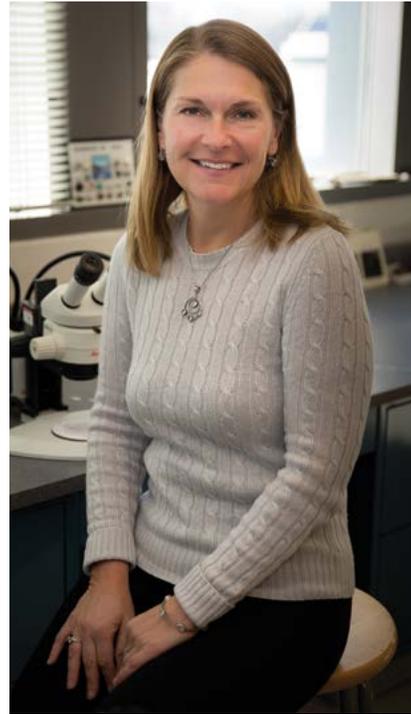
In recognition of her leadership in the field of English Education, Dr. Schmidt received several campus-wide and national awards in the 2016-2017 AY, such as the NCTE Student Affiliate Excellence Award and the Omicron Delta Kappa Academic Advising Award at West Chester University.



Dr. Daria Nikitina

Earth and Space Sciences

Dr. Nikitina's research is focused on the geologic record of sea-level and coastal inundation due to climate changes, crustal deformation, storms, and tsunamis. In the recent years Dr. Nikitina has been an active member of the International Geologic Correlation Project 639 – Sea Level Change from Minutes to Millennia, contributing publications in international journals and special issues, and presenting at the project annual meetings (Oman, 2016; South Africa, 2017). Her other research interests include long-term carbon sequestration in coastal wetlands and its role in local and global carbon cycle, salt marsh resilience to severe storms, use of sediments archives for assessment of anthropogenic impacts on coastal wetlands, impact of sea level rise on archeological sites in the Delaware Bay.



Dr. Eric Fournier

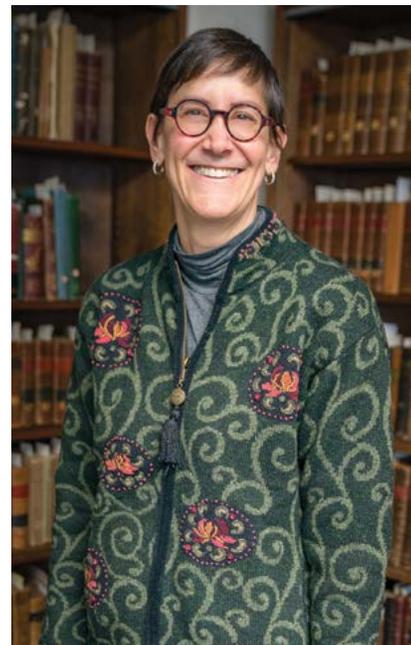
History

Dr. Eric Fournier is serving to edit the forthcoming *Heirs of Roman Persecution: Studies on a Christian and para-Christian Discourse in Late Antiquity* while having just published "The Vandal Conquest of North Africa: Origins of a Historiographical Persona," in *Journal of Ecclesiastical History* 68.4 (2017): 1-32. More forthcoming works include "Excluding Heretics: Intolerant Bishops and Tolerant Vandals," *Inclusion and Exclusion in Late Antiquity*, edited by Yaniv Fox and others, "Constantin et la persécution présumée des donatistes." *Revue des Études Tardo-Antique. Supplément 5: Numéro spécial en l'honneur de Bertrand Lançon* (2015-2016): 89-105, "Les « silences » d'Ammien Marcellin et de Victor de Vita : Témoins d'une polarisation religieuse dans l'antiquité tardive ?" In *Silences de l'historien*, edited by C. Jouanno. Coll. "Giornale Italiani di Filologia – Biblioteca." Turnhout : Brepols and "Conquis par l'Afrique: L'importance des Donatistes pour comprendre l'Afrique vandale," *Karthago* 30 (2016-2017).

Dr. Lisa Kirschenbaum

History

Dr. Lisa Kirschenbaum's work includes a co-authored textbook *Russia's Long Twentieth Century: Voices, Memories, Contested Perspectives* (Routledge 2016), an annotated translation of *Daytime Stars: A Poet's Memoir of Revolution, the Siege of Leningrad, and the Thaw* (University of Wisconsin Press, forthcoming 2018) and *International Communism and the Spanish Civil War* which is scheduled to appear in paperback in early 2018. She offered the keynote address "Reframing Slavic Studies and the Global Impacts of 1917," at the International conference commemorating hundred-year anniversary of the Bolshevik Revolution of 1917, held in October 2017 at University of Texas, Austin.





Dr. Jea Sophia Oh

Philosophy

Assistant Professor Jea Sophia Oh is in her third year at West Chester University. Her research focuses on Asian Philosophy, Comparative Ethics, Religion and Ecology, and Postcolonial Studies. Her research is highly interdisciplinary and cross-cultural, intersecting Western philosophy/theology, and (East) Asian philosophy/spirituality, including Buddhism, Confucianism, Daoism, and Donghak (Korean indigenous tradition). Her book, *A Postcolonial Theology of Life: Planetarity East and West* (Upland: Sopher Press, December 2011), is the first approach to bridge postcolonialism and ecological ethics with the use of Asian spirituality as the philosophical underpinning for the argument that all forms of life are sacred. She is the editor and author of *Nature's Transcendence and Immanence: A Comparative Interdisciplinary Ecstatic Naturalism* (Lanham: Lexington Books, December 2017). She has presented and published numerous articles on various topics nationally and internationally and has helped her students present course papers at both the Yale Graduate Conference of Religion and Ecology and the International Environmental Philosophical Association (IEPA) conference.



Dr. Dean Johnson

Philosophy

Assistant Professor Dean Johnson is the Director of Peace and Conflict Studies, an interdisciplinary program housed in the Department of Philosophy. Dr. Johnson's recent work as an activist-scholar includes consulting with students and faculty on workshops/trainings in nonviolent social change and hosting speakers on campus such as David Ragland of the Truth Telling Project, and Zoharah Simmons, human rights movement elder. Dr. Johnson has also become a regular contributor to the Wabash Center for Teaching and Learning in Theology and Religion's blog series, Teaching, Religion, Politics. His posts include: "On Being White and Teaching Race, Religion and Theology," "Teaching About the Politics of Religion and Social Change," and "Teaching Students About Finding Their Religious Justice Roots." Over the summer, Dr. Johnson worked with scholar and activist colleagues on a new introduction to peace and conflict studies text oriented toward students and community organizations.

Dr. Kathleen Riley

Literacy

Assistant Professor Kathleen Riley's research aims to understand and address issues of inequity in our educational system generally and within the field of literacy education specifically. Her scholarship is focused on three interrelated areas: Critical literacy and social justice perspectives in literacy education; teacher inquiry, learning, and activism; and the preparation of critically conscious urban teachers.

Dr. Riley's recent research is focused on multiple teacher education contexts, including her own methods courses and an Undergraduate Urban Education fellowship program that she co-founded at West Chester University with Dr. Kathryn Solic. She recently co-authored an article with Dr. Solic that was published in the *Journal of Teacher Education* focused on undergraduate teacher candidates' learning in the fellowship as they engaged with activist teacher communities in Philadelphia. She has also published several articles from her collaborative inquiry with Dr. Kathrine Crawford-Garrett on using critical literacy practices in teacher education courses. Her most recent research project documents and analyzes the work of teacher inquiry and activist communities in urban contexts.





Dr. Jacob Cooper

Music Theory, History, & Composition

The past year has seen a number of Dr. Cooper's compositions performed live at venues around the world. Among them are:

- *Ripple the Sky* (voice + processed string octet) performance at Soundbox (San Francisco Symphony's hip new music hall) in Feb 2017 — for John Adams' 70th birthday celebration. The other pieces in the concert were several works by Adams, a piece by Andrew Norman, and a piece by Ashley Fure.
- *Ripple the Sky* at the Kennedy Center "KC Jukebox Series" — coming up this December.
- *Sanctus* (orchestra + choir) performed by the Dayton Philharmonic in June 2017
- *Sanctus* performed on 5 shows by the Slovenian National Theater choir and orchestra
- *Arches* (solo cello) toured by Brooklyn Rider (about 15 cities) in *Some of a Thousand Words*, a collaboration between dancer Wendy Whelan, choreographer Brian Brooks, and Brooklyn Rider.

Similarly, he has had several recordings issued, including:

- The Living Earth Show, recording of *Pasturing II* on New Amsterdam Records (Oct. 2016)
- Vicky Chow, recording of *Clifton Gates* on New Amsterdam Records (Nov. 2016)
- Kathy Supové, recording of *La plus que plus que lente* on New Focus Recordings (Oct. 2016)



Dr. Robert Maggio

Music Theory, History, & Composition

With the support of a grant from NewMusicUSA and generous sponsorship from The Robert Wood Johnson Hospital in Hamilton, NJ, and in conjunction with the Breast Cancer Resource Center of Princeton, NJ, composer Robert Maggio collaborated with lyricist Matthew Hardy and choreographer Mark Roxey to create *THE C WORD: STORIES OF BREAST CANCER SURVIVORS*, a dance/music/theater work celebrating the lives of breast cancer survivors. Created through extensive interviews with over two dozen extraordinary women, this 90-minute production featured 18 original songs by Maggio and Hardy, performed live, with Mark Roxey's choreography performed by both the dancers of Roxey Ballet and the breast cancer survivors. *THE C WORD* premiered at Grounds for Sculpture in Hamilton, NJ, June 2-4, 2017, and the songs were subsequently recorded at Shelter Island Sound in New York City, then mixed and mastered at Silvertone Studios in Ardmore, PA.



Dr. Adam Silverman

Music Theory, History, & Composition

Adam Silverman completed many new compositions, including "The Rule of Five" (a double concerto for two percussionists and wind ensemble), "The Percustary Insectarium" for cello and ten percussionists, and "Nightmare Machine" for drum kit and recorded accompaniment. He is currently composing a work for two saxophones and piano to be premiered at the World Saxophone Congress in Zagreb, Croatia. His works continue to be performed widely across the USA, and have been featured on tours by the RoseWind Duo, The Quey Percussion Duo, Lawler + Fadoul, and the South Dakota State University Symphonic Band, who performed Silverman's marimba concerto at the Percy Grainger Wind Band Festival in Chicago's Orchestra Hall. Several new works have been recorded for future release, including "Over a windcloaked nightsoaked starpoked sea" (for alto sax and piano), "The Hedgehog's Dilemma" (for piano trio), "The Cruel Waters" (for marimba quartet), "Paper Covers Rock" (percussion duo), "Together" (flute and vibraphone), and "Sparklefrog" (percussion octet).



Dr. Nicole Cattano
Sports Medicine

Associate Professor Nicole Cattano's research has a clear focus on osteoarthritis of the knee. Long-term knee health is an area of great importance in the field of athletic training. Athletes who have suffered knee injuries are highly susceptible to developing osteoarthritis (OA). An individual who undergoes surgery for a knee injury and successfully returns to a physically active life still has an extremely high chance (80%) of developing OA within 10 years. By the time OA is diagnosed it is too late to help someone reverse or slow the disease. However, Dr. Cattano has initiated investigations into other clinical measures such as patient-reported outcomes or biomarkers for early detection of impending changes prior to any structural changes occurring.

Dr. Cattano's most recent research has examined the connection between physical activity and quality of life in connection to the progression of OA markers and symptoms. Her connection to patient-reported outcomes and disease progression is clinically meaningful, intentional and will assist clinicians with the management of OA.

**Dr. Katherine Morrison
and Dr. Sandra Fowkes Godek**
Sports Medicine

During this reporting period several publications were produced from the HEAT Institute through collaborative efforts of Dr. Katherine Morrison and Dr. Sandy Fowkes Godek in addition to multiple graduate students within the College of Health Sciences. The research focus of the represented work is prevention and management of heat-related injuries. Clinical athletic trainers are often the first line of defense and treatment for heat illness. In order to effectively treat, it is most important to identify what causes heat related injury and, moreover, what we can do to prevent it. There are still several gaps left in the areas of treatment and prevention, and at West Chester University we are beginning to fill some of those gaps. The work is novel and once again clinically meaningful and tangible for clinicians practicing in sports medicine.



Dr. Sandy Sarcona
Nutrition

In the spring of 2017 Dr. Sarcona conducted a pilot study (n = 8) to assess the impact of nutrition counseling on lifestyle and eating behavior, anthropometric measures, and serum lipid and glucose levels. Subjects participated in weekly nutrition counseling sessions over 8 weeks done by senior nutrition students who were CITI trained and Dr. Sarcona. Lifestyle and eating behavior were assessed with a survey, and anthropometric measures and serum lipid and glucose values were done at the start of the program and after completing the counseling sessions. Results are being analyzed and written for publication. Dr. Sarcona recently published an article in the *American Journal of Health Education* (2017) on the relationship between the use of mobile-based apps and physical activity, eating behaviors, and health-related lifestyle choices of college students.



Dr. Jacob Cooper,
Music Theory, History, & Composition

Dr. Anil K. Kandalam

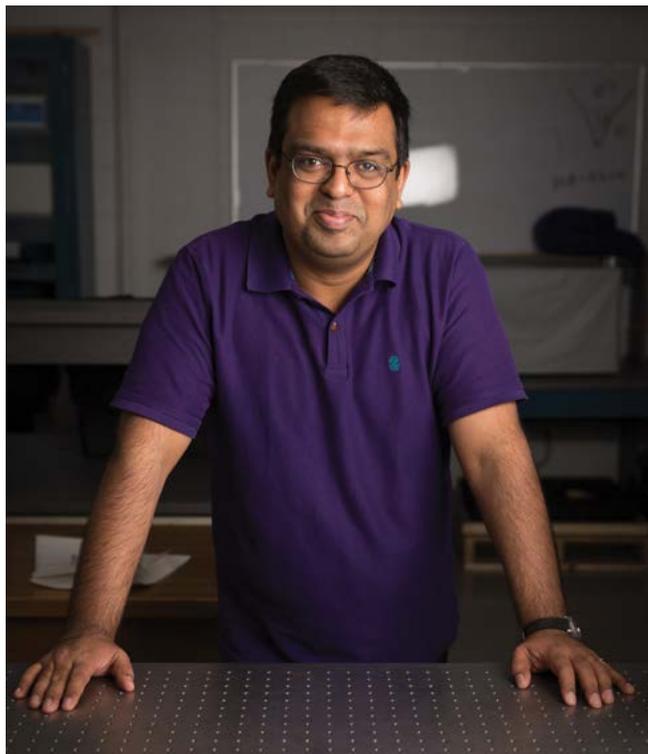
Physics

Associate Professor Anil Kandalam's research interests encompass computational studies of nanoclusters, nanoparticles, novel nanostructures, and modeling of defects in bulk materials and surfaces.

The main focus in most of these studies is to have a fundamental understanding of the electronic structure, stability, and reactivity of pure and doped nanostructures from a theoretical view point. These studies can provide interesting avenues leading to the prediction, design, and development of new tailor-made nanomaterials and nanostructures for applications in energy and health. Dr. Kandalam collaborates regularly with experimentalists at other universities, including Johns Hopkins University and University of Konstanz.

Dr. Kandalam has published 52 research articles in regarded international journals, four conference proceedings, and one book chapter. He has also co-organized four international conferences, co-edited two conference proceedings, and was a guest editor of a special issue of the *Journal of Nanoparticle Research*.

Dr. Kandalam regularly involves students in his research projects. Currently he has three undergraduate students and one graduate student working in his group. His students have been co-authors on peer-reviewed journals.



Dr. Brandon Mitchell

Physics

Dr. Mitchell uses organo-metallic vapor phase epitaxy and laser spectroscopy to grow and explore the optical, electrical, and magnetic properties of rare-earth doped gallium nitride (GaN). This work is performed in collaboration with Professor Yasufumi Fujiwara (Osaka University) and Professor Volkmar Dierolf (Lehigh University). They use various techniques such as photoluminescence spectroscopy and atomic force microscopy to explore the material properties of the novel samples they fabricate. Dr. Mitchell holds a visiting appointment at Osaka University and is a user at Oak Ridge National Laboratory. Currently, two undergraduate students are working in Dr. Mitchell's research group.



Dr. Eleanor D. Brown, Psychology

Eleanor D. Brown, PhD is a licensed clinical psychologist and a Professor of Psychology at West Chester University, where she directs the Early Childhood Cognition and Emotions Lab (ECCEL). Dr. Brown's current scholarship on daily, poverty-related stress is funded by Brandywine Communication Technologies (\$164,000). Her 2016 paper in *Family Relations*, co-authored with three WCU alums, showed that daily poverty-related stress related to learned helplessness on the part of young children, and suggested that parents' efforts to help children cope might alleviate this impact. Dr. Brown is also investigating arts programming as a mechanism for promoting the positive development of children facing poverty risks. Her NEA funded project, "Can the Arts Get Under the Skin?" (\$25,000), resulted in a 2017 publication in *Child Development* with two WCU alum co-authors. This study demonstrated that music, dance, and visual arts classes related to lower cortisol levels for children facing poverty-related stress. Dr. Brown's 2017 research has been highlighted by Science Daily, the NEA Blog, the Philadelphia Public School's *The Notebook*, the Philadelphia Cultural Alliance's Agenda: Pre-K initiative, and number of popular media outlets, including WHYY, the *Philadelphia Inquirer*, *Pacific Standard*, and multiple television news clips. Dr. Brown's current research on arts programming for low-income elementary school students is funded by the William Penn Foundation and Settlement Music School (\$194,000). The research suggests that high quality arts programming may promote educational equity and social-emotional well-being for children from diverse backgrounds and with diverse needs.



Dr. Vipanchi Mishra, Psychology

Dr. Mishra is an Industrial-Organizational psychologist and her research focuses on understanding the role of cultural values on workplace behaviors. To this end, one of her recent research projects includes understanding the effects of individual differences in values of collectivism and power distance on perceived severity of sexual harassment behaviors in the workplace. In addition, Dr. Mishra has recently begun to investigate the effects of mindfulness training interventions on work and student performance. One of her recent research studies looked at the effects of brief mindfulness training on student performance in a statistics course. Similarly, another study currently in progress looks at exploring the effects of brief mindfulness training on performance on employee selection and assessment measures such as interview and cognitive ability tests. These studies have recently been presented at the Society for Industrial and Organizational Psychology conference and Pennsylvania State System Psychology Conference.



Dr. V. Krishna Kumar, Psychology

In 2017, Professor V. Krishna Kumar, PhD, co-edited (with Stephen Lankton) *Hypnotic Induction: Perspectives, Strategies and Concerns* (London, UK: Routledge, to be released in 2018). This book resulted from an invitation by Stephen Lankton, Chief Editor of *American Journal of Clinical Hypnosis* (AJCH), to serve as guest editor on a topic of his choice for an issue of the journal. The articles included in the book have already been published in a 2016 *AJCH* issue and later picked up by Routledge for publication in the form of a book. The book features an editorial by Professor Kumar, titled "The Paradox of Induction," and an article by Stephen Krystek (former WCU student) and Dr. Kumar, "A Comparison of Hypnotic Induction, Task Motivation, and a 'Cold Start' Control Group on Hypnotizability." In March 2017, Mr. Krystek and Dr. Kumar received the Clark Hull Award for Scientific Excellence in Writing on Experimental Hypnosis from the *AJCH* for their article, which was based on Mr. Krystek's master's thesis. As the editor of *The Amplifier Magazine* of the American Psychological Association's Society of Media Psychology and Technology, Professor Kumar published two editorials: "Films and Societal Change" and "The Art of Protesting." In 2013, as a result of his initiative, the Society's newsletter became an online peer-reviewed magazine, published biannually.



Grants Funded Through External Sources FY 17

(Submitted Through ORSP and WCUF)

PRINCIPAL INVESTIGATOR	DEPARTMENT	PROJECT TITLE	FUNDER	FUNDING
Colgan, Ann	Academic Advising	Duke Jewish Studies Library Fellowship	Duke University	\$1,500
Fish, Frank	Biology	Hydrodynamics Of Non-Traditional Propulsion	Office of Naval Research	\$204,906
Fish, Frank	Biology	Collaborative Research: Scaling Of Unsteady Locomotor Performance And Maneuverability	National Science Foundation	\$37,153
Maresh, Jennifer	Biology	Determining The Energy Value Of Deep-Sea Forage Fishes To Apex Marine Predators	Pennsylvania State System of Higher Education	\$4,995
Pisciotta, John	Biology	Wind-Actuated Vibrating Electrochemical Digester	Environmental Protection Agency	\$14,490
Moriconi, Christine; McCown, Donald	Center for Contemplative Studies	Distinguished Speakers Series	Chester County Community Foundation	\$5,000
Shuman, Mark	Chemistry	Internship Agreement	Arkema Inc.	\$27,100
Craig, John	Development Program	Act 101 Program	Pennsylvania Higher Education Assistance Agency	\$161,785
Schwarz, Karen	Earth and Space Sciences	Increasing Student Interest In Stem Through Formal Research	National Aeronautics and Space Administration	\$16,000
Buckelew, Mary	English	2017-2018 Seed Advanced Institute To Scale Up The Nwp College-Ready Writers Program Grant	National Writing Project	\$20,000
Nuccio, Tori	Financial Aid	Funds For Student Resource Pantry – Unaccompanied Students	Carlino's Market	\$1,260
Cena, Lorenzo	Health	Generation And Characterization Of Aerosols From Nano-Enabled Composites	Centers for Disease Control and Prevention	\$43,000
Cinelli, Bethann	Health	Campbell's Healthy Communities	Campbell Soup Foundation	\$25,000
Cinelli, Bethann	Health	School Health Leadership Institute Exemplary Sexual Health Education	Centers for Disease Control and Prevention	\$27,800
Holt, Harry	Health	Availability Of Medication-Assisted Treatment For Opioid Addiction In Rural And Urban Pennsylvania	Center for Rural PA	\$49,835
Moriconi, Christine	Health	Youth Mental Health	Brandywine Health Foundation	\$3,750
Shorten, Charles	Health	Water Chemistry Sampling And Analysis For West Goshen Retrofit Project	West Goshen Township	\$2,517
Loedel, Peter	International Programs & Services	Professional Campus Recruitment Services	Peace Corps	\$12,491
Clark, Kenneth	Kinesiology	Filming And Biomechanical Evaluation Of Elite Athletes	USA Track and Field	\$9,000
Cleland, Frances	Kinesiology	Shape America	Shape America	\$20,000
Fowkes-Godek, Sandra	Kinesiology	Heat Institute	Adidas	\$20,000
Lepore, Monica	Kinesiology	Adapted Nutrition, Fitness And Physical Education Program	Chester County Downs Syndrome Interest Group	\$7,900

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(Submitted Through ORSP and WCUF)

PRINCIPAL INVESTIGATOR	DEPARTMENT	PROJECT TITLE	FUNDER	FUNDING
Lepore, Monica	Kinesiology	Inclusive Model Post-Secondary Education Program For Students With Intellectual Disabilities At West Chester University	DREAM Partnership	\$60,000
Lepore, Monica	Kinesiology	Operating Funds For Campabilities	West Chester Lions Club Foundation	\$1,000
Zimmerman, Monica	Management	Pa State System Student Business Plan Competition	PASSHE Foundation	\$2,500
Aristotelous, Andreas	Mathematics	Computational Methods For Heterogeneous Soft Living Materials	National Science Foundation	\$65,351
Li, Chuan	Mathematics	New Generation Delphi: Large Systems And Beyond Electrostatics	National Institute of Health	\$54,857
Moriconi, Christine	Nursing	Kids First Program	Chester County Department of Human Services	\$7,500
Subach, Jeanie	Nutrition	Store Training Grant Program	Produce for Better Health Foundation	\$2,958
Aptowicz, Kevin	Physics	Angularity-Resolved Elastic Light Scattering Of Atmospheric Particles: Experimental Measurements And Model Verification	Dept of Army	\$54,951
Thornton, Robert	Physics	Simons Observatory	Simons Foundation	\$47,713
Morgan, Paul	Professional & Secondary Education	Philadelphia Teacher Initiative In Education For Sustainability	National Science Foundation	\$4,734
Bernotsky, R. Lorraine	Provost & VP Academic Affairs	Pennsylvania State Gear Up	Department of Education	\$103,824
Brown, Eleanor	Psychology	Music Education Pathways - Supplement	William Penn Foundation	\$50,073
Rundus, Aaron; Chancellor, Rebecca	Psychology	Funds For The Gishwati Research Station	Greater West Chester Sunrise Rotary	\$2,000
WCUF	Social Work Graduate	Believe, Play And Have Fun	Chester County Community Foundation	\$1,500
Adera, Beatrice	Special Education	Project Max	PA Department of Education	\$10,000
Murphy, Corinne	Special Education	Successful Degree Completion For Students With Autism Spectrum Disorders	Pennsylvania State System of Higher Education	\$5,000
Warner, Charles	Student Leadership	State Farm Student Leadership Programs	State Farm Insurance Corporation	\$17,250
Patwell, Martin	USSSS	Trio/Sss	Department of Education	\$253,962
Jenkins, Eileen	WEDnet	Wednetpa	PA Department of Community & Economic Development	\$732,374
			Total →	\$2,193,029

West Chester University Internal Funding FY17

PRINCIPAL INVESTIGATOR	DEPARTMENT	PROJECT TITLE	FUNDING
Richman, Aliza	Anthropology and Sociology	Faculty-Led Study Abroad Program To Ghana	\$6,000
Ruchti, Lisa	Anthropology and Sociology	Invisible Survivals: The Success, Struggle, And Resistance Of Women Of Color College Students At A Primarily White Institution In A State System Of Higher Education	\$7,482
Stoller, Paul	Anthropology and Sociology	Between Anthropology And Sociology	\$6,000
Wholey, Heather	Anthropology and Sociology	Develop A Middle Atlantic Cultural Resources Assessment Network To Prioritize Threats From Climate Change Effects And Mobilize A Middle Atlantic Archaeological Recovery Project	\$6,000
Wiest, Julie	Anthropology and Sociology	New Media Technologies As Resources For Social Change	\$7,500
Van Orden, Sally	Art + Design	Fire And Ice: An Evolution Of Clay And Steel	\$6,000
Boettger, Anne	Biology	Clam Population Health In Changing Climate	\$8,900
Donze-Reiner, Theresa	Biology	Identifying Tolerance Associated Genes In Switchgrass During Greenbug Aphid Infestations	\$5,981
Pisciotta, John	Biology	Diagnostic Metabolite Transfer Disks	\$6,000
Sweet, Eric	Biology	Investigating The Role Of Lrrk2 In Hippocampal Circuits Of Depression In Parkinson's Disease	\$6,984
Hu, Jinqiu	Chemistry	Use Backyard Waste To Harvest Solar Energy	\$9,200
Kolasinski, Kurt	Chemistry	Porous Silicon Powders For Drug Delivery	\$9,700
Cooke, Laquana	Communication Studies	(De)Coding The World Through Media: Icamp Games And Media For Social Change Summer Academy At Wcu Summer 2017	\$6,000
Kopacz, Ola	Communication Studies	A Multimethod Analysis Of A Secret Facebook For Single Mothers	\$2,500
Chen, Si	Computer Science	Crowdmap++: Reconstruction Of Context-Rich Building Floorplan Via Mobile Crowdsourcing	\$6,743
Cui, Lui	Computer Science	Broadening Participation In Computing - Promoting Diversity In Computer Science Department	\$6,000
Cui, Lui; Lu, Bin	Computer Science	'Women In Computer Science Club' Distinguished Lectures And Meeting With Former Members	\$2,960
Lu, Bin	Computer Science	Design And Development Of A Virtual Cybersecurity Lab	\$4,000
Snyder, Matt; Zubernis, Lynn	Counselor Education	Teaching The T/C Case Conceptualization Model To School Counseling Field Site Supervisors	\$2,900
Johnson, Karen	Early & Middle Grades	Co-Teaching Beyond Student Teaching	\$5,721
Lucas, Lisa	Early and Middle Grades Education	Healthy Habits For Educators	\$3,278
Kim, Yong Hoon	Earth and Space Sciences	Application Of Coastal Inundation Model, Slosh, In Pennsylvania	\$5,519
Condliffe, Simon; Isgin, Ebru; Saboe, Matt	Economics	Exercise, Incentives, And Health Outcomes: A Field Experiment To Investigate The Efficacy Of Different Behavioral Methods To Motivate Students To Increase Exercise Habits, And The Resulting Health Benefits.	\$7,500

West Chester University Internal Funding FY17

PRINCIPAL INVESTIGATOR	DEPARTMENT	PROJECT TITLE	FUNDING
Anderson, Amy	English	Windows To Heaven: The Rhetorical Legacy Of Byzantine Icons	\$6,000
Cooke, Laquana	English	Media Creation As Youth-To-College Recruitment Strategy: Designing Assessable Urm Recruitment Through Icamp's Summer Academy @ Wcu	\$6,000
Fletcher, Robert	English	An Augmented Edition Of Michael Field's Sight And Song	\$2,414
Smucker, Janneken	History	Exploring Philadelphia Immigration Through "Memory, Visuality And Mobility"	\$5,722
Reed, Melissa	Kinesiology	Interdisciplinary Approach To Fall Prevention	\$500
Campillo-Fenoll, Marcos	Languages and Cultures	Poetry And Canons In Early 20Th Century Argentina; From National Education To Transnational Perspectives	\$3,737
Corbin, Megan	Languages and Cultures	The Significance Of Sites Of Memory And Material Objects In Post-Dictatorship Southern Cone Latin America	\$5,578
Moser, Joseph	Languages and Cultures	Visual Memory Of A Lost Civilization In Chernivtsi/ Czernowitz And Lviv/ Lemberg, Ukraine	\$2,000
Saltzman, Megan	Languages & Culture	Completion Of Book Manuscript: Public Everyday Space: The Case Of Post-Francoist Barcelona	\$6,654
Skaggs, Danielle	Library Services	Determining The Research Process Of Distance Students	\$2,041
Riley, Kathleen	Literacy	Building A Movement By Reading Together: Teacher Book Groups As An Organizing Tool	\$6,938
Riley, Kathleen	Literacy	Building A Movement By Reading Together: Teacher Book Groups As An Organizing Tool	\$3,120
Riley, Kathleen; Solic, Katie	Literacy	Wcu Urban Education Fellowship	\$2,000
Santori, Diane	Literacy	Community Of Teachers Exploring Classroom Discourse	\$2,950
Fisher, Michael	Mathematics	Research In Combinatorial Game Theory	\$6,000
Silverman, Adam	Music Theory, History and Composition	Cd Recording Of Original Compositions By Adam Silverman	\$4,500
Harrison, Barbara	Nursing	Interdisciplinary Approach To Fall Prevention	\$500
Joseph, Rachel	Nursing	Health-Seeking Behaviors And Perceived Barriers	\$9,300
Davidson, Patricia	Nutrition	Factors Related To Diabetes Medication Adherence	\$9,300
Gilboy, Mary Beth	Nutrition	Interdisciplinary Approach To Fall Prevention	\$500
Golmohamadi, Amir	Nutrition	Identification Of Children Preference For Raw Versus Cooked Vegetables, A Preliminary Study	\$7,500
Johnson, Kimberly; Fleck (Student)	Nutrition	Snap Stimulation And Cultural Competence Of Emerging Health Professional And Students	\$1,000
Oh, Jea Sophia	Philosophy	Advancing Book Manuscript, Comparative Ecotheology: An East West Dialogue Of Yin-Yang And Five Elements, And Research Trip To South Korea And China	\$5,500
Kandalam, Anil	Physics	Computational Studies Of Group Iii Binary Nanoclusters	\$7,162
Pfeil, Shawn	Physics	Studies Of Novel Rna Structures Using Single-Molecule Fluorescence	\$5,540

West Chester University Internal Funding FY17

PRINCIPAL INVESTIGATOR	DEPARTMENT	PROJECT TITLE	FUNDING
Pfeil, Shawn	Physics	Undergraduate Research In Molecular Biophysics	\$5,996
Thornton, Robert	Physics	Build A Compact Ft Spectrometer	\$9,500
Kenney, Jane; Newcombe, Ellen	Professional and Secondary Education	Using Technology To Increase Active Learning	\$2,800
Chang, Janet	Psychology	A Cultural Mismatch In Higher Education: Norms Affecting First-Generation College Students' Help-Seeking Behaviors	\$2,994
Clarke, Angela	Psychology	Engaging Undergraduate Students In The Implementation And Evaluation Of A Community-Based Prevention Program For Adolescents	\$5,963
Hill, Erin	Psychology	Development And Validation Of The Appropriate Antibiotic Use Self-Efficacy Scale	\$7,473
Mishra, Vipanchi; Kerr, Sandra	Psychology	Effects Of Mindfulness Intervention On Applicant Performance On Employment Tests: An Experimental Investigation	\$6,038
Mitchell, Karen	Psychology	First-Year Student Workshop On Evidence-Based Learning Techniques: Phase 2	\$5,095
Rundus, Aaron	Psychology	Assessing The Effects Of Environmental Variability And Ecotourism On The Stress And Health Of Chimpanzees (Pan Troglodytes Schweinfurthii) In The Gishwati National Park, Rwanda	\$2,324
Rundus, Aaron	Psychology	Development Of A Field Research Site In Rwanda	\$6,900
Tahmaseb-McConatha, Jasmine	Psychology	Ilearn: Intergenerational Learning And Mentoring Program	\$5,795
Tahmaseb-McConatha, Jasmin	Psychology	Social Inequality And Diabetes: A Qualitative Study	\$6,654
Cattano, Nicole	Sports Medicine	Patient Reported Outcomes Over The Course Of A Competitive Basketball Season In Participants With And Without A Previous Knee Injury	\$1,000
Heinerichs, Scott	Sports Medicine	Interdisciplinary Approach To Fall Prevention	\$500
Staruch, Liz	Theatre and Dance	Research For New Performance Work Based On The Bauhaus Movement	\$5,500
Ruchti, Lisa	Women's Studies	The Resistance Of Women Of Color College Students	\$10,000
Total →			\$335,856

West Chester University

Research and Scholarly Outputs FY17

PEER-REVIEWED PUBLICATIONS	PEER-REVIEWED PRESENTATIONS PERFORMANCES EXHIBITIONS	DEPARTMENT	STUDENTS IN RESEARCH	SCHOLARLY AWARDS	OUTREACH EVALUATIONS	LEADERSHIP POSITIONS	INVITED SPEAKERS PERFORMERS
3	2	Academic Advising	N/A	N/A	N/A	N/A	N/A
N/A	N/A	Accounting	N/A	N/A	N/A	N/A	N/A
3	3	Academic Development Program	N/A	N/A	N/A	2	6
N/A	N/A	Anthropology and Sociology	N/A	N/A	N/A	N/A	N/A
8	17	Applied Music	5	0	2	0	0
7	54	Art + Design	20	17	7	9	17
9	14	Biology	56	13	17	23	3
N/A	N/A	Chemistry	N/A	N/A	N/A	N/A	N/A
0	13	Communication Sciences and Disorders	15	0	12	1	18
14	20	Communication Studies	22	7	1	21	15
5	4	Computer Science	4	1	2	1	0
29	23	Counselor Education	22	5	4	8	8
8	17	Criminal Justice	16	0	4	4	1
15	26	Early and Middle Grades Education	26	4	21	7	8
6	10	Earth and Space Sciences	46	2	3	1	16
20	16	Economics and Finance	1	0	0	2	0
N/A	N/A	Educational Foundations and Policy Studies	N/A	N/A	N/A	N/A	N/A
38	60	English	6	13	0	18	12
6	13	Geography and Planning	13	0	1	3	6
18	42	Graduate Social Work	23	1	13	11	27
16	30	Health	22	5	9	11	15
38	26	History	8	5	14	31	31
16	48	Kinesiology	12	9	5	7	11
23	38	Languages and Cultures	10	1	22	18	10

West Chester University Research and Scholarly Outputs FY17

PEER-REVIEWED PUBLICATIONS	PEER-REVIEWED PRESENTATIONS PERFORMANCES EXHIBITIONS	DEPARTMENT	STUDENTS IN RESEARCH	SCHOLARLY AWARDS	OUTREACH EVALUATIONS	LEADERSHIP POSITIONS	INVITED SPEAKERS PERFORMERS
N/A	1	Liberal and Professional Studies	N/A	N/A	N/A	3	N/A
16	18	Literacy	4	1	3	3	4
N/A	N/A	Management	N/A	N/A	N/A	N/A	N/A
N/A	N/A	Marketing	N/A	N/A	N/A	N/A	N/A
N/A	N/A	Mathematics	N/A	N/A	N/A	N/A	N/A
N/A	N/A	Music Education	N/A	N/A	N/A	N/A	N/A
N/A	N/A	Music Theory, History and Composition	N/A	N/A	N/A	N/A	N/A
19	37	Nursing	37	10	16	31	37
29	36	Nutrition	42	13	11	17	11
12	28	Philosophy	3	5	6	14	17
24	9	Physics	20	3	1	2	5
N/A	N/A	Political Science	N/A	N/A	N/A	N/A	N/A
30	44	Psychology	151	10	72	33	14
N/A	N/A	Public Policy and Administration	N/A	N/A	N/A	N/A	N/A
N/A	N/A	Social Work	N/A	N/A	N/A	N/A	N/A
N/A	N/A	Special Education	N/A	N/A	N/A	N/A	N/A
15	11	Sports Medicine	25	4	0	10	10
1	30	Theatre and Dance	242	10	18	15	8
1	4	Undergraduate Studies & Student Support Services	N/A	N/A	N/A	1	0
6	5	Women's and Gender Studies	8	3	4	1	12

N/A = not available



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