



Dean's Quarterly Updates

July-September 2017

Student Learning and Success

Undergraduate Student Learning and Success

- The **Department of Nutrition and Dietetics** is offering a new undergraduate certificate in Nutrition.
- Life Health Science Intern (LHSI) Josh Roy, IUPUI sophomore was mentored by **Terry Loghmani**.
- Health Sciences Faculty and Director of Career Services, **Tim Scully**, hosted an employer panel for IUPUI Fall Career Week.
- SHRS is participating in the Hire Achievers program which encourages and supports student employment on campus. **Deanna Hart** will participate in ongoing training as a student mentor and supervisor.
- Student Enrollment Services staff **Deanna Hart** and **Tiffany Essex** hosted a table at IUPUI Major & Career Information Day in the Campus Center. Student Ambassadors assisting were: Tamyia Sims* (BSHS), Laura Aust* (MSOT), Stephanie Tellus* (DPT), Courtney Larson* (DPT), Jordan Clevenger* (DPT), and Taylor Stewart* (DPT).
- Student Enrollment Services participated in the IUPUI Part-Time Job Fair, promoting three student positions in the Dean's Office.

Interprofessional Education

- The **Dietetic Internship Program** is participating in an interprofessional education activity with the School of Nursing, School of Engineering and Technology, and the Herron School of Art and Design. Dietetic interns, working in teams with students from the participating schools, are developing proposals for an opioid addiction education program designed for primary school children. **Sara Blackburn** is coaching one of the interdisciplinary teams and is the primary liaison from the Department of Nutrition & Dietetics.
- The **Department of Physical Therapy** and **Physician Assistant Studies** students participated in the first learning anchor for the Interprofessional Practice and Education Center's TEACH curriculum which revolved around learners identifying roles and responsibilities of various health care professionals. **Rebecca Rebman** and **Michele Schultz** were faculty facilitators for the event.

Graduate and Graduate Professional Education

- The **Dietetic Internship Program** welcomed 16 new dietetic interns on August 15. The Class of 2018 includes students from Indiana, Kentucky, Kansas, Georgia, New Jersey, Ohio, Illinois, and China.
- The Proposed Clinical Doctorate in Dietetics passed the Preproposal Review by the IUPUI Academic Programs Committee. A successful preproposal review allows the **Department of Nutrition & Dietetics** to move forward with the development of the full degree proposal required for new degree approval.
- The **Dietetic Internship Program** is partnering with Employee Health Services at Eli Lilly Co, Lilly Corporate Center in Indianapolis to offer a two week experience in corporate wellness for dietetic interns.
- The **Doctor of Occupational Therapy Program Post-Professional Program** students presented their research at the annual Professional Development Workshop on August 4, 2017. This marked the second graduating cohort from the program.
- Graduate research assistant of **Terry Loghmani**, Allison Longgood*, was awarded a travel grant to present a poster at the upcoming 6th International Symposium on Regenerative Rehabilitation in Pittsburgh, PA, in November.
- The Physician Assistant Program was named **Department of Physician Assistant Studies** in August 2017.
- Emily Straus*, Dietetic Internship Class of 2017, won the Indiana Society for Parenteral and Enteral Nutrition (ISPEN) case study competition in July. The subject of her case study was Medical Nutrition Therapy for Crohn's Disease: A Total Abdominal Colectomy with Underlying Micronutrient Deficiencies and Malnutrition. This is the second year in a row that a graduate of SHRS **Dietetic Internship Program** won this competition.



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Student Learning and Success

Graduate and Graduate Professional Education, cont.

- **Christine Kroll** has been appointed the Interim Program Director of the Doctor of Occupational Therapy Post-Professional Program as of July 1, 2017.
- **Patricia Scott** has been appointed Interim Chair of Occupational Therapy as of July 1, 2017.

Online Education

- The **Doctor of Occupational Therapy Post-Professional Program** is now fully online as it started the third cohort for the program.

Enrollment Management

- **Deanna Hart** arranged a visit for four advisors from University of Cincinnati where the advisors met with Deanna and the departments to learn more about the IU DPT, OTD-EL, and MPAS degree programs.
- **Deanna Hart, Brenda Lawless, and Courtney Henderson** and Undergrad Admissions office representatives Bobby Bell and Claire Brown have collaborated to create an email journey to prospective Health Sciences students.
- **Deanna Hart, Amy Bayliss,** and several PT Ambassadors traveled to Purdue University to meet with the Pre-PT/Pre-OT club to share information on applying to the IU DPT and IU OTD-EL graduate programs.
- SHRS participated in Virtual Fairs for Occupational Therapy, Physical Therapy, and Physician Assistant Studies.
- SHRS was asked to provide students for a graduate admissions student panel discussion hosted by the Health & Life Science Advising Center and PREPs in the Lilly Auditorium in University Library. Student Ambassadors volunteering were: Laura Aust* (MSOT), Ross Powell* (DPT), and Emily McNulty* (MPAS).
- **Deanna Hart** gave a presentation and organized a student panel for "Careers in Healthcare p OT, PT, PA". Student Ambassadors assisting were: Jared Pulliam* (MSOT), Michaela O'Shaughnessey* (MSOT), Rachel Wichlinkski* (DPT), Samantha Krause* (DPT), Melissa Mailand* (DPT), Ally Garrett* (DPT), Lauren Stavroff* (MPAS), and Emily Meadows* (MPAS)
- SHRS participated in IUPUI's Health & Life Science Experience Expo with **Ashley Msikinya** hosting a Health Sciences undergraduate info table and Deanna Hart hosting a graduate info table.
- **Deanna Hart** collaborated with Renee Akins from the IU School of Medicine to host a Joint SHRS/IUSM Information Session for current undergraduate students identified as first generation and/or diverse from IU-Bloomington and IUPUI. Student Ambassadors assisting were: Janie Thomas* (MSOT), Samantha Krause* (DPT), Stephanie Tellus* (DPT), Mackenzie Wilson* (DPT), Lauren Stavroff* (MPAS), and Emily Meadows* (MPAS).



Dean's Quarterly Updates

Advances in Health and Life Sciences

Research and Creative Activity

Grants

- **Bayliss A** received a \$1000 professional development award from CTL for her involvement in the Role of Reflection in SoTL Faculty Learning Community.
- **Brown MB** was awarded as Co-investigator (1 calendar month effort), on a VA BLRD Merit Award for the project: Estrogen receptor- effects on right ventricular vascular density and angiogenesis in pulmonary hypertension; T. Lahm as PI; \$649,584, 1/1/18 – 12/31/21.
- **Brown MB** submitted (as PI) a Pilot and Feasibility Proposal to be included in an NIH P30 grant application by Emory University for her project: A home walking program to improve glycemic control in CF related diabetes (\$100K, 2 years). She was also included on the P30 application 'CF ATLANTA Research and Translation Core Center in CF-related Diabetes as a co-investigator (2% effort, 5 years)
- **Eli S** received Ethicon Educational Grant worth \$16,483 in suture supplies to support the Department of Physician Assistant Studies students' suture workshop, July 2017
- **Loghmani MT** received the Indiana Clinical and Translational Sciences Institute (CTSI) & Indiana Center for Biomedical Innovation (ICBI) Medical Device Development Assistance (MDDA).
- **Thompson W** was awarded CTSI Collaboration in Translational Research Grant UL1 TR001108 (Co PI: Alex Robling, PhD): "Real-Time, in vivo Assessment of Osteocyte Calcium Signaling Initiated by Matrix Tethers" (09/01/2017-08/31/2019): A two-year project to determine the role of perlecan in mechanical regulation of calcium signaling in osteocytes, in vivo, \$75,000.
- **Warden S** was awarded \$299,922 as PI from the NBA/GE Orthopedics and Sports Medicine Collaboration for the study entitled "Activities and factors influencing the magnitude and distribution of tibial bone strains in basketballers".
- **Warden S** was awarded \$782,495 as PI of the Musculoskeletal Function, Imaging and Tissue (MSK-FIT) Resource Core, which is part of the \$3.9M National Institute of Arthritis and Musculoskeletal and Skin Diseases funded "Indiana Core Center for Clinical Research in Musculoskeletal Health".

Poster Sessions

- **Cardinal R, Massie C, Altenburger P.** Kinematics to assess learning changes during robotic rehabilitation in children with hemiplegic cerebral palsy. American Academy for Cerebral Palsy and Developmental Medicine Annual Meeting. Montreal, Canada September 2017.
- **Liu CJ,** Clark D, Keith N, & Xu H. Promoting ADL Independence in Vulnerable Elderly: Six-Month Follow-Up of a Pilot Comparative Trial. IAGG 21st World Congress, San Francisco, CA. July 2017.
- Pagnotti GM, **Thompson WR**, Wright L, Regan J, Mohammed K, Rubin CT, Guise TA. Effects of LIV pre-Treatment on Musculoskeletal Endpoints in Mice Following Complete Estrogen Deprivation. International Cancer and Bone Society Conference, Indianapolis, IN, 2017.
- Pagnotti GM, Wright LE, Regan JA, **Thompson WR**, Mohammed K, Rubin CT, Guise TA. Low Intensity Vibrations Increase Strength, Reduce Fat, and Improve Glucose Tolerance in Mice with Complete Estrogen Deprivation. ASBMR 39th Annual Meeting, Denver, CO, 2017.
- **Wilburn V** & Wasmuth S. Community Based Mental Health: A Collaborative Approach to Care. American Occupational Therapy Association Mental Health Specialty Conference Indianapolis, IN September 15, 2017.



Dean's Quarterly Updates

Advances in Health and Life Sciences

Research and Creative Activity (cont.)

Poster Sessions (cont.)

- Yi X, Wright LE, Pagnotti GM, Regan JN, Uzer G, Rubin CT, Mohammed K, Guise TA, **Thompson WR**. Low Magnitude Mechanical Signals Suppress Expression of Osteolytic Genes in MDA-MB-231 Breast Cancer Cells. International Cancer and Bone Society Conference, Indianapolis, IN, 2017.
- Yi X, Wright LE, Pagnotti GM, Regan JN, Uzer G, Rubin CT, Mohammed K, Guise TA, **Thompson WR**. Low Magnitude Mechanical Signals Decrease Invasion and Expression of Osteolytic Factors in MDA-MB-231 Breast Cancer Cells, with Subsequent Suppression of Osteoclastogenesis. ASBMR 39th Annual Meeting, Denver, CO, 2017.

Presentations

- Arnold S & **Janson R** presented part-one of an Upper Extremity Lecture Series: Shoulder (Anatomy & Rehabilitation). Indiana Occupational Therapy Association Central District Meeting. Indianapolis, IN. Invited. August 17, 2017.
- **Comer A** hosted "Praying with dying patients" at the Seminar in Religion, Spirituality, Healthcare & Ethics.
- **Janson R** presented on 3D Printing to the IU OT Class of 1967 during their 50th Class Reunion visit to SHRS. Invited. September 19, 2017.
- **Janson R** presented part-three of an Upper Extremity Lecture Series: Wrist (Anatomy & Rehabilitation). Indiana Occupational Therapy Association Central District Meeting. Indianapolis, IN. Invited. September 28, 2017.
- **Janson R** was a Technology Playground Exhibitor (3D Printing Applications in Teaching) for IUPUI's Advancing Teaching and Learning with Technology Symposium, Indianapolis, IN. Invited. September 15, 2017.
- **Janson R** & Arnold S presented part-two of an Upper Extremity Lecture Series: Elbow Forearm (Anatomy & Rehabilitation). Indiana Occupational Therapy Association Central District Meeting. Indianapolis, IN. Invited. September 7, 2017.
- **Loghmani MT** presented Development of a Mechatronic Quantifiable Soft Tissue Manipulation Medical Device for the Treatment of Musculoskeletal Conditions. Inaugural Indiana CTSI ICBI MDDA Award Competition. Indianapolis, IN. August 2017.

Publications

- **Allen MG** & Voytek M. (2017). Perceptions of Occupational Therapy Students and Faculty of Compressed Courses: A Pilot Study. The Open Journal of Occupational Therapy: Vol. 5: Iss. 4, Article 12.
- Alotaibi AM, Chien S, **Loghmani MT**, Anwar S. Force and motion sensing for instrument-assisted soft tissue manipulation device. J Med Devices. 2017;11(3). Paper No: MED-16-1355 Doi:10.1115/1.4036654. (Co-senior author, concept innovator).
- **Comer AR**, Gaffney M, Stone C, Torke AM. Physician understanding and application of surrogate decision making laws in clinical practice. AJOB Empirical Bioethics 2017;8:198-204.
- **Comer A**, Gaffney M, Stone C, Torke A. "What do you mean I cannot consent for my grandmother's medical procedure?": Key issues with state default surrogate decision making laws. Indiana Health Law Review. 2017;14(2):2-27.
- Elder WG*, **Munk N***, Love MM, Bruckner GG, Stewart KE, Pearce K. Real-world massage therapy produces meaningful effectiveness signal for primary care patients with chronic low back pain: results of a repeated measures cohort study. Pain Med 2017;18:1394-405 (*co-first authors).
- **Liu CJ**, Jones LY, Formyduval ARM, Clark DO. Task-oriented exercise to reduce activities of daily living disability in vulnerable older adults: a feasibility study of the 3-step workout for life. J Aging Phys Act 2016;24:384-92.
- **Liu CJ**, Marie D, Fredrick A, Bertram J, Utley K, Fess EE. Predicting hand function in older adults: evaluations of grip strength, arm curl strength, and manual dexterity. Aging Clin Exp Res 2017;29:753-60.



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Publications (cont.)

- **Massie CL**, Du Y, Conroy SS, Krebs HI, Wittenberg GF, Bever CT, Whittall J. A clinically relevant method of analyzing continuous change in robotic upper extremity chronic stroke rehabilitation. *Neurorehabil Neural Repair* 2016;30:703-12.
- **Liu CJ**, Xu H, Keith NR, Clark DO. (2017). Promoting ADL Independence in Vulnerable, Community-Dwelling Older Adults: A Pilot RCT Comparing 3-Step Workout for Life vs. Resistance Exercise. *Clinical Interventions in Aging*, 12, 1141-1149. doi: 10.2147/CIA.S136678.
- Neumann CG, Nyandiko W, Siika A, Drorbaugh N, Samari G, Ettyang G, **Ernst JA**. Morbidity and nutrition status of rural drug-naïve Kenyan women living with HIV. *Afr J AIDS Res* 2016;15:283-91.
- **Pape S**, McFadden R, & Murray J. (2017). Paving a New Path: Promoting Advocacy and Access to Occupational Therapy Services for Young Adults with Autism. *SIS Quarterly Practice Connections*, Vol. 2, Issue 3. American Occupational Therapy Association, Bethesda, MD.
- Umoren RA, Poore JA, Sweigart L, Rybas N, Gossett E, Johnson M, **Allen M**, **Scott PJ**, Truman B & Das R. TeamSTEPPS Virtual Teams: Interactive Virtual Team Training and Practice for Health Professional Learners. *Creative Nursing*, Volume 23, Issue 3, 2017.
- **Warden SJ**, **Thompson WR**. Become one with the force: optimising mechanotherapy through an understanding of mechanobiology. *Br J Sports Med* 2017;51:989-90.

Contributions to the Well-being of the Citizens of Indianapolis, Indiana, and Beyond

Community Engagement

- Second year OT students in **Martina Allen's** advanced pediatric elective course provided fine motor developmental play groups to children at the IUPUI Center for Young Children under the supervision of **Victoria Wilburn**.
- **Amy Bayliss** and two third year DPT students, Carolyn Tobin* and Abby Walker* gave a 60 minute presentation to dentistry students and faculty. The title of the presentation was "Wellness for Dentistry Professionals and Students: Stress Management, Postural Awareness, and Interventions for Common Injuries."
- **Mary Beth Brown** served as a panelist during IUPUI's Office of Academic Affairs's sponsored P&T program for new faculty, "Plan Now for Success."
- **Mary Beth Brown** now serves as a member of IU's Institutional Animal Care and Use Committee (IACUC) which reviews research protocols and conducts evaluations of IU's animal care and use.
- **Sarah Eli** presented on the physician assistant profession and pathways to apply to PA school to IU HCOP participants enrolled in the HCOP Junior Summer Camp, July 2017.
- **Robin Janson** presented: A Career in Occupational Therapy to a group of Ben Davis High School freshman students, Indianapolis, IN. September 8, 2017.
- **Robin Janson** presented: Introduction to 3D printing to Boy Scout Troop 303 in Brownsburg, Indiana on August 22, 2017.
- **Robin Janson** & Brooke O'Steen (of SRT Prosthetics), presented: Upper Limb Prosthetics Experiential: Body Powered & Myoelectric to high school female students attending the IUPUI School of Engineering and Technology POWER Camp, Indianapolis, IN, July 17, 2017.
- **Christine Kroll** is developing the entry-level doctoral residency experiential and is seeking community partners. She met with St. Francis Hospital Rehabilitation Department and attended the open house for the new BOSMA Enterprises facility, assistance and jobs for those with blindness.
- **Terry Loghmani** was an invited member of the IUPUI campus planning committee for the William M. Plater Institute on the Future of Learning: Nurturing a Culture of Community Health through Interdisciplinary and Integrated Approaches.



Dean's Quarterly Updates

Contributions to the Well-being of the Citizens of Indianapolis, Indiana, and Beyond

Community Engagement (cont.)

- **Terry Loghmani** continues to serve as the IU PT Faculty Advisor for IUSOC. Working with OT faculty advisor, **Sharon Pape** and student OT & PT chairs along with architects in planning the design of the OT/PT area in the new IU SOC building space. Also, along with IU & UIndy co-chairs, met & welcomed Ed Jones, the new UIndy PT Faculty, to his new role at the clinic.
- **Terry Loghmani** is a member of the ICMH Research Team: Trauma, Regeneration, and Rehabilitation.
- **Sharon Pape** (along with IU Occupational Therapy Students Classes of 2018 and 2019) participated in the annual community open house event at IU Student Outreach Clinic on September 9, 2017.
- **Sharon Pape** has been selected to participate as a mentor for the American Occupational Therapy Association Education Special Interest Section (EDSIS) Fieldwork Mentorship Program for academic year 2017-2018.
- **Michele Schultz** presented on access to health care to IU HCOP participants enrolled in the HCOP Junior Summer Camp, July 2017.
- **Michele Schultz** was a panel member for the School of Nursing's IPE panel to discern the differences in the physician assistant and nurse practitioner professions.
- **Michele Schultz** and **Sean Sreniawski** presented on the physician assistant profession and pathways to apply to PA school to IU HCOP participants at the John H. Boner Community Center, September 2017.
- **Victoria Wilburn** attended the Graham-Cassidy Reform Meeting for State Association Presidents sponsored by the American Occupational Therapy Association (September 21, 2017). Members of the Indiana Occupational Therapy Association were briefed and organized to oppose the proposed bill.

Faculty and Staff

- **Deanna Hart** was appointed to represent SHRS staff on the Taskforce for SHRS/PETM Restructuring.
- **Marlita Kelly** joined the Department of Physician Assistant Studies as Clinical Year Program Assistant in August 2017.
- The Department of Occupational Therapy welcomed two one-year visiting faculty, **Victoria Wilburn** and **Wen-Pin Chang**, who will teach during the 2017-2018 academic year.
- **Caily Wolma Lee** has joined the Occupational Therapy Department as Program Assistant starting in July.

Professional Engagement

- **Mary Beth Brown** was asked to serve as internal advisory board member for the NIH PPG application entitled "Osteocyte Regulation of Muscle/Bone Function" submitted by the Indiana Center for Musculoskeletal Health.
- **Mary Beth Brown** was asked to serve as DSMB member for the NIH funded clinical trial out of Vanderbilt University: A Mobile Health Intervention in Pulmonary Arterial Hypertension.
- **Terry Loghmani** was invited to present "Regenerative Rehabilitation" to the Cryptic Masons Medical Research Foundation.
- **Stuart Warden** accepted an invitation from the National Osteoporosis Foundation's Working group on Nutrition and Physical Activity for Bone Health in Children, Adolescents and Young Adults.
- **Stuart Warden** served as external examiner of a Master of Science dissertation from the University of Cape Town (South Africa).
- **Stuart Warden** served as external examiner of a Doctor of Philosophy dissertation from the University of British Columbia (Canada).
- **Stuart Warden** served as external reviewer of Paediatric Research Program Grants for the National Children's Research Centre (Ireland).