

Publications of past Bridge To The Doctorate Fellows

Publication Title	Names (UConn B2D Fellows in bold)	Date of Publication
Exploring the Relationship Between Vehicle Type Choice and Distance Traveled: A Latent Segmentation Approach. Transportation Letters. (Revised and Resubmitted)	<b>Angueira, J.</b> , Konduri, K.C., Chakour, V., and Eluru, N.	2016
Exploration of Short Term Vehicle Utilization Choices in Households with Multiple Vehicle Types. Transportation Research Record, Journal of the Transportation Research Board, 2493, pp. 39-47.	<b>Angueira, J.</b> , Faghih-Imani, A., Enam, A., Konduri, K.C., and Eluru, N.	2015
pH Effects on Stability of FMN Wrapping around Single-Walled Carbon Nanotubes. Poster session presented at the University of Connecticut LSAMP Bridge to the Doctorate Poster Symposium. Storrs, CT.	<b>Arias, K.</b> , Sharifi, S. Papadimitrakopoulos, F.	Apr-16
"Inductive Small Molecule-Based Approach for Bone Regenerative Engineering" Bridge to the Doctorate Poster Symposium. University of Connecticut, Storrs, CT. Poster Presentation	<b>Awale, G.</b>	Apr-16
"Repositioning Tacrolimus: Evaluation of the Effect of Short-Term Tacrolimus Treatment on Osteoprogenitor Cells and Primary Cells for Bone Regenerative Engineering", ASSAY and Drug Development Technologies, 77-88	Edward O'Neill, Komal Rajpura, Erica J. Carbone, <b>Guleid Awale</b> , Ho-Man Kan, and Kevin W.-H. Lo	2019
"Harnessing cAMP signaling in musculoskeletal regenerative engineering", Drug Discovery Today Volume 22, Issue 7, July 2017, Pages 1027-1044	Okechukwu Clinton Ifegwu, <b>Guleid Awale</b> , Komal Rajpura, Kevin W-H. Lo, Cato T. Laurencin	Jul-17
"Bone Regenerative Engineering Using a Protein Kinase A-Specific Cyclic AMP Analogue Administered for Short Term", December 2018, Volume 4, Issue 4, pp 206-215.	Okechukwu Clinton Ifegwu, <b>Guleid Awale</b> Ho Man Kan, Komal Rajpura, Edward O'Neill, Chia-Ling Kuo, Kevin W.-H. Lo	Dec-18
"The roles of Ions on Bone regeneration", Drug Discovery Today Volume 23, Issue 4, April 2018, Pages 879- 890	Edward O'Neill, <b>Guleid Awale</b> , Leila Daneshmandi, Obum Umerah and Kevin W.-H. Lo	Apr-18
Use of Musculoskeletal Modeling and Simulation to Investigate the Knee and Hip Loading during Sit-To-Stand. Bridge to the Doctorate Poster Symposium. University of Connecticut, Storrs, CT. Poster Presentation.	<b>Bowen, S.</b> , Gielo-Periczak, K	Apr-16
Provisional US patent application for UConn Invention # 16-056 - the Sit to Stand Assistive Device, University of Connecticut.	Fayal, C., Kivney, S., Hodorowski, J., Vyas, K., Craddock, T., Dalal, T., Aekins, R., <b>Bowen, S.</b> , Viganter, E., Yee, J., Gielo-Periczak, K., Gupta, S.	2016
Use of Musculoskeletal Modeling and Simulation to Investigate the Effect of Seat Angle on Sit-To-Stand Maneuver, The 40th Annual Meeting of the American Society of Biomechanics, August 2-5, Raleigh, NC.	<b>Bowen, S.</b> , Gielo-Periczak, K	Aug-16
Biomechanical Perspectives on Personalized Regenerative Medicine Through Musculoskeletal Modeling: The 1st Rock Stars of Regenerative Engineering Conference, December 10th - 11th, Irvine, California.	<b>Bowen, S.</b> , Gielo-Periczak, K	Dec-16
Development of a Sit-to-Stand assistive device for individuals with lower limb muscle weakness, The 43rd Northeast Bioengineering Conference (NEBEC), March 31st-April 2nd, Newark, NJ.	<b>Bowen, S.</b> , Abbiati, A., Gielo-Periczak, K., Gupta, S., Suresh, M., Mathioudakis, A.	2017
Short-Term, High Intensity Plyometric Training Improves Balance in Young Adults, The 43rd Northeast Bioengineering Conference (NEBEC), March 31st-April 2nd, Newark, NJ.	Suresh, M., <b>Bowen, S.</b> , Mathioudakis, N.A., Gielo-Periczak, K	2017
Musculoskeletal Modeling at the Tibio-Femoral Joint for Sit-to-Stand (STS) Maneuver, The XVI International Symposium on Computer Simulation in Biomechanics, (podium presentation), July 20th - 22nd, Brisbane, Australia.	Mathioudakis, N.A., <b>Bowen, S.</b> , Suresh, M., Gielo-Periczak, K.	2017
Musculoskeletal Loading at the Tibio-Femoral Joint for Sit-to-Stand (poster), The XXVI Congress of the International Society of Biomechanics, July 23rd - 27th, Brisbane, Australia.	Mathioudakis, N.A., <b>Bowen, S.</b> , Suresh, M., Gielo-Periczak, K.	2017
Effects of a High Intensity Plyometric Training Regime on a Postural Control of Young Adults, The 41st Annual Meeting of the American Society of Biomechanics, August 8th-11th, Boulder, Colorado.	Suresh, M., <b>Bowen, S.</b> , Mathioudakis, A., Gielo-Periczak, K.	2017
"Effects of a short-term, high intensity plyometric training regimen on postural control of young adults"; Issue Rehabil. Orthop. Neurophysiol. Sport Promot. 25:7-20.	Suresh, M., <b>Bowen, S.</b> , Mathioudakis, A., Gielo-Periczak, K.	2017
Improvement of Nanostructured Coating from One-Step Co-assembly. IMS Industrial Affiliates Program (IAP) Annual Meeting; May 25, 2016. Poster. University of Connecticut	<b>Chavez, S.</b>	2016
Improvement of Nanostructured Coating from One-Step Co-assembly. Annual LSAMP Bridge to the Doctorate (BD) poster presentation and symposium; April 15th.	<b>Chavez, S.</b>	2016
"Using Water-borne Inorganic Nano-sheets for an Eco-friendly Alternative to Chemical Flame Retardant" EPA P3 Competition- Received Honorable Mention Award. BD Uconn Poster Symposium	<b>Chavez, S.</b> ; Bendel, B.; Havosov, A.; Kovacs, L.; Liu, J.; Masinda, W.	2015
Nanofluidic Energy Conversion and Molecular Separation through Highly Stable Clay-based Membranes. Journal of Materials Chemistry A 2019, 7, 14089- 14096.	Zhou, Y.; Ding, H.; Smith, A. T.; Jia, X.; Chen, S.; Liu, L.; <b>Chavez, S.</b> ; Hou, Z.; Liu, J.; Cheng, H.; Liu, Q.; Sun, L.	2019
"Fluoxetine Administration Exacerbates Oral Tremor and Striatal Dopamine Depletion in a Rodent Pharmacological Model of Parkinsonism", Neuropsychopharmacology volume 40, pages2240-2247	Samantha J Podurgiel, Meredith N Milligan, Samantha E Yohn, Laura J Purcell, <b>Hector M Contreras-Mora</b> , Mercé Correa & John D Salamone	2015
"Deficits in learning and memory in mice with a mutation of the candidate dyslexia susceptibility gene Dyr1c1", Brain and Language, Volume 172, Pages 30-38	Amanda R.Rendalla,AartiTarkarb, <b>Hector M.Contreras-Moraa</b> , Joseph J.Lo,TurcobR. ,HollyFitch	Sep-17
"Not All Antidepressants Are Created Equal: Differential Effects of Monoamine Uptake Inhibitors on Effort-Related Choice Behavior", Neuropsychopharmacology volume 41, pages686-694	Samantha E Yohn, Samantha L Collins, <b>Hector M Contreras-Mora</b> , Emily L Errante, Margaret A Rowland, Merce Correa & John D Salamone	2016
Effects Of The MAO Inhibitors Deprenyl, Moclobemide And Pargyline on Effort-Related Choice Behavior", Master Thesis	<b>Hector M. Contreras-Mora</b>	May-16
"Partial reversal of the effort-related motivational effects of tetrabenazine with the MAO-B inhibitor deprenyl (selegiline): Implications for treating motivational dysfunctions", Pharmacology Biochemistry and Behavior, Volume 166, March 2018, Pages 13-20	<b>Hector Contreras-Mora</b> , Margaret A.Rowlanda, Samantha E.Yohn, MerceCorrea, John D.Salamone	Mar-18

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Publication Title	Names (UConn B2D Fellows in bold)	Date of Publication
Development and Optimization of Bio-Based Active Transport Technology, UConn Environmental Engineering Student Poster Symposium, October 2014, Storrs, CT	Grant Bouchillon, <b>Brian Cruz</b> , Leslie M. Shor	Oct-14
Microbially-mediated Drying Resistance in Soil Micromodels, AEESP Distinguished Lecture Series Student Poster Reception, April 2015, Storrs, CT.	<b>Cruz, B.C.</b> , J. Lewis, L. M. Shor	Apr-15
Influence of Pore Size Distribution on EPS-Mediated Drying in Soil Micromodels, Northeast LSAMP Bridge to the Doctorate Poster Session, April 2015, Storrs, CT.	<b>Cruz, B.C.</b> , J. Lewis, L. M. Shor	Apr-15
Influence of Pore Size Distribution on EPS-Mediated Drying in Soil Micromodels, Northeast LSAMP Bridge to the Doctorate Poster Session, April 2016, Storrs, CT.	<b>Cruz, B.C.</b> , J. Lewis, L. M. Shor	Apr-16
How Bacteria Stay Wet in Dry Soil – The Sticky Truth, New England Graduate Student Water Symposium (NEGSWS), September 2015, Amherst, MA	<b>Cruz, B.C.</b> , J. Lewis, L. M. Shor	Sep-15
Microbially-mediated Drying Resistance in Soil Micromodels, AGU Conference 2015, December 2015, San Francisco, CA.	<b>Cruz, B.C.</b> , L. M. Shor	Dec-15
"Standardization of Parametric MRI Quantification of Stem Cell-Based Tissue- Engineered Cartilage". 5th Annual Stem Cell and Regenerative Medicine Symposium, September 20, 2013, Chicago IL. Poster.	Pothirajan, P., <b>Dorcemus, D. L.</b> , Nukavarapu, S.P., Kotecha, M	Sep-13
"Gradient Matrix Design for Osteochondral Tissue Engineering". MRS Conference, Dec. 1-6, 2013, Boston, MA.	<b>Dorcemus D. L.</b> and Nukavarapu, S.P	Dec-13
"Novel Absorbable Polyurethane Biomaterials and Scaffolds for Tissue Engineering". MRS Conference, Dec. 1-6, 2013, Boston, MA. Poster.	<b>Dorcemus, D.L.</b> , Luzzi, A.J., Mikael,P.E., Emmakah, A.M., Bezwada,R.S. and Nukavarapu, S.P	Dec-13
"Development of a Unique Scaffold System for Osteochondral Tissue Engineering". New England Science Symposium, April 6, 2014, Boston MA.	<b>Dorcemus D. L.</b> and Nukavarapu, S.P	Apr-14
"Development and Investigation of a New Generation Matrix for Osteochondral Tissue Engineering". SFB Conference, April 15-19, 2014, Denver CO.	<b>Dorcemus D. L.</b> and Nukavarapu, S.P	Apr-14
"True MRI Assessment of Stem Cell Chondrogenesis in a Tissue Engineered Matrix" IEEE EMBS Conference,	Pothirajan,P, <b>Dorcemus, D.L.</b> , Nukavarapu,S.P., Kotecha, M	2014
"High Field Sodium MRI for Early Stage In Vitro Assessment of GAG in Engineered Cartilage" Termis Conference, Poster.	Pothirajan,P, <b>Dorcemus, D.L.</b> , Nukavarapu,S.P., Kotecha, M	2014
"Differentiating Engineered Bone from Cartilage using Diffusion Tensor MRI for Osteochondral Tissue Engineering" Termis Conference, Poster.	Majumdar, M, <b>Dorcemus, D. L.</b> Nukavarapu, S.P., Kotecha, M	2014
"Formulation of a Co-differentiation Media for Osteochondral Tissue Engineering" BMES Conference, October 7-10, 2015. Poster	<b>Dorcemus D. L.</b> and Nukavarapu, S.P	2015
Gradient Porous Scaffolds, US Patent App. 14/136,410.	Nukavarapu,S.P., Laurencin, C.T., Amini, A.R., <b>Dorcemus, D.L</b>	
Tissue Engineering of Skeletal Tissues. Reference Module in Biomedical Sciences. Elsevier. 2014, 10.1016/B978-0-12-801238-3.00027-1.	<b>Dorcemus, D.</b> , Nukavarapu S.P	2014
"Biomaterials and Scaffolds for Musculoskeletal Tissue Engineering" in "Engineering Musculoskeletal Tissues and Interfaces" Eds. Nukavarapu, Laurencin, Freeman, Woodhead Publishers, 2015, 3-23.	Francois, E., <b>Dorcemus, D.</b> , Nukavarapu, S.P	2015
Autologous Progenitor Cells for Bone Tissue Engineering, StemConn 2015, May 11, Hartford, CT.	Mikael, P., <b>Dorcemus, D.</b> , Barnes, B., Nukavarapu, S.P	2015
Completely Intra- operative Tissue Engineering Strategy for Tissue Repair and Regeneration. Gordon Research Conference on Musculoskeletal Biology and Bioengineering, 2014, Andover, NH.	<b>Dorcemus, D.</b> , Mikael, P., Stephens, C., Lichtler, A., Rowe, D., Nukavarapu, S.P.	2014
Enhanced reactive adsorption of H2S on Cu-BTC/ S- and N-doped GO composites. J.Mater. Chem A., 2015, 3, 8194-8204	<b>Ebrahim, A.M.</b> , Jaqiello, J., and Badosz, T	2015
"Are Ferroelectric Multilayers Capacitors in Series?" J. Mater. Sci. 51, 499–505	F. Sun, <b>Y. Espinal</b> , M. T. Kesim, and S. P. Alpay,	2016
Pyroelectric and Dielectric Properties of Ferroelectric Films with Interposed Dielectric Buffer Layers," Appl. Phys. Lett. 105, 232905	<b>Y. Espinal</b> , M. T. Kesim, I. B. Misirliglu, S. Trolier-McKinstry, J. V. Mantese, and S. P. Alpay	2014
"Dielectric and Pyroelectric Properties of PZT with Buffer Layers" Symposium on Interfaces, Structure, and Domains in Ferroic and Multiferroic Material Systems, XXIII International Materials Research Congress, Cancun, Mexico. (Invited Talk)	M. T. Kesim, <b>Y. Espinal</b> , S. Trolier-McKinstry, J. V. Mantese, S. P. Alpay	2014
"Are Ferroelectric Multilayers Capacitors in Series?" Electronic Materials and Applications 2016, Symposium on Multiferroic Materials and Multilayer Ferroic Heterostructures: Properties and Applications, Orlando, FL. (Contributed Talk)	F. C. Sun, M. T. Kesim, <b>Y. Espinal</b> , S. P. Alpay	Jan-16
"Topological Phase Transformations and Intrinsic Size Effects in Ferroelectric Nanoparticles," Nanoscale 9, 1616- 1624 (2017) – selected as a research highlight by the US Department of Energy, Office of Science, Basic Energy Sciences	J. Mangeri, <b>Y. Espinal</b> , A. M. Jokisaari, S. P. Alpay, S. Nakhmanson, and O. G. Heinonen	2015
"Accounting for the Various Contributions to Pyroelectricity in Lead Zirconate Titanate Thin Films," J. Appl. Phys. 123, 124104	B. Hanrahan, <b>Y. Espinal</b> , C. Neville, R. Rudy, M. Rivas, A. Smith, M. T. Kesim, and S. P. Alpay	2018

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"Dielectric Properties and Resistive Switching Characteristics of Lead Zirconate Titanate/Hafnia Heterostructures," J. Appl. Phys. 124, 064103	<b>Y. Espinal</b> , S. P. Alpay, M. Howard, and B. Hanrahan	2018
"Combining Inverse and Conventional Pyroelectricity in Antiferroelectric Thin Films for Energy Conversion," J. Mater. Chem. C. 6, 9828-9834	B. Hanrahan, <b>Y. Espinal</b> , S. Liu, Z. Zhang, A. Khaligh, A. Smith, and S. P. Alpay	2018
"Performance Analysis of Dielectric Composites Consisting of Ferroelectric Nanoparticles within an Atomic Layer Deposited Dielectric Matrix," J. Appl. Phys., submitted Aug. 6, 2019 (revised manuscript submitted Oct. 10, 2019)	<b>Y. Espinal</b> , S. Vijayan, S. P. Alpay, M. Aindow, and B. Hanrahan	2019
Antibacterial antifolates: From development through resistance to the next generation. Cold Spring Harbor Perspectives in Medicine, 6(8). <a href="https://doi.org/10.1101/cshperspect.a028324">https://doi.org/10.1101/cshperspect.a028324</a>	<b>Estrada, A.</b> , Wright, D. L., & Anderson, A. C.	2016
Structural and Functional Studies of Bacterial Enolase, a Potential Target against Gram-Negative Pathogens. Biochemistry, 58(9), 1188-1197. <a href="https://doi.org/10.1021/acs.biochem.8b01298">https://doi.org/10.1021/acs.biochem.8b01298</a>	Krucinska, J., Falcone, E., Eriksens, H., Hazeen, A., Lombardo, M. N., <b>Estrada, A.</b> , Wright, D. L.	2019
Harnessing Cyclic AMP Signaling for Bone Regenerative Engineering, poster, Regenerative Engineering Symposium, Pittsburgh, PA.	<b>Guleid Awale</b>	Oct-18
"Porous, Poly(lactic-co-glycolic acid) Microsphere Scaffolds for Bone Regenerative Engineering". ERN Conference, Oral Presentation, Washington, D.C.,	<b>Guleid Awale</b>	Feb-19
"Multifunctional nanocoatings from One-Step co-assembly" Oral Presentation, August 20, 2018 Boston, MA, ACS	<b>Sonia Chavez</b>	2018
Cyclic nucleotide gated cation channels 2 and 6 behave similarly in a signaling cascade allowing thermotolerance. Northeast Section Annual Meeting; American Society for Plant Biology.	<b>Garrido, K.</b> , Berkowitz, GA	2015
Phenotypes of Arabidopsis cyclic nucleotide-gated cation channel null mutants: probing the nature of native channel protein complexes. Plant Physiology. (in preparation).	Ma, Y., <b>Garrido, K.</b> , Berkowitz, GA.	2016
Plant Cell Signaling and Plant: microbe Interactions Symposium. Institute of Biotechnology, Zhejiang University, Hangzhou, China.	Berkowitz, GA., Ma, Y., <b>Garrido, K.</b> , Chou, H.	Dec-15
"Molecular Simulations Of [Au25(AIB)18]-1, Au130(SCH3)50, and Au144(SCH3)60 Clusters". Svetlana Gelpi Bridge to the Doctorate Poster Symposium. April 15, 2016. Poster Presentation.	<b>Gelpi, S.</b> , Gascón, J.A	Apr-16
"Molecular Simulations Of [Au25(AIB)18]-1, Au130(SCH3)50, and Au144(SCH3)60 Clusters" University of Connecticut Chemistry Department Open House. March 5, 2016. Poster Presentation.	<b>Gelpi, S.</b> , Gascón, J.A	Mar-16
"First Principles Simulations of Liquid Water: van der Waals and Many Body Corrections" Abstract submitted and accepted to the 2016 SACNAS National Conference. Poster Presentation.	<b>Gelpi, S.</b> , Anh, P.; Morales-Silva, M. A.	2016
"First Principles Simulations of Liquid Water: van der Waals and Many Body Corrections" 250th ACS National Meeting. August 2015. Poster presentation for the colloids division.	<b>Gelpi, S.</b> , Anh, P.; Morales-Silva, M. A.	Aug-15
"Expanding the Eggshell Pigment Colour Palette: Uroerythrin and Bilirubin from the Eggshells of Two Tinamous" in preparation, to be submitted 10/2019	<b>Hamchand, R.</b> ; Hanley, D.; Prum, R.O.; Brückner, C.	2019
"Protoporphyrin IX in the Spines of the European Hedgehog (Erinaceus europaeus)" J. Nat. Prod. 2019, in revision.	<b>Hamchand, R.</b> ; LaFountain, A.; Büchel, R.; Maas, K.R.; Frank, H.; Brückner, C.	2019
"An Alternate Route of Transforming meso-Tetraarylporphyrins to Porpholactams, and their Conversion to Amine- functionalized Imidazoloporphyrins" J. Org. Chem. 2018, 83, 9619-9630.	Luciano, M.; Akhigbe, J.; Ding, J.; Thuita, D.; <b>Hamchand, R.</b> ; Zeller, M.; Brückner, C.	2018
"Isolation of Biliverdin IX $\alpha$ , as its Dimethyl Ester, from Emu Eggshells" J. Chem. Educ. 2017, 94, 1533-1537.	Halepas, S.; <b>Hamchand, R.</b> ; Lindeyer, S. E. D.; Brückner, C.	2017
"Analysis of the Pigment Composition of Keratinized Tissues of Vertebrates" Poster #15, Undergraduate Research Symposium of the ACS Connecticut Valley Section, Mount Holyoke College, South Hadley, MA.	<b>Hamchand, R.</b> ; LaFountain, A. M.; Magdaong, N.; Brückner, C.; Prum, R. O.; Frank, H. A.	Apr-16
"Analysis of the Pigment Composition of Keratinized Tissues of Vertebrates" Poster, Undergraduate Research Symposium, University of Saint Joseph, West Hartford, CT.	<b>Hamchand, R.</b> ; LaFountain, A. M.; Magdaong, N.; Brückner, C.; Prum, R. O.; Frank, H. A.	Apr-15
"Extraction and Analysis of Tetrapyrrolic Compounds from Avian Eggshells and Hedgehog Quills" Poster, Bridge to Doctorate Poster Session, UConn, Storrs, CT.	<b>Hamchand, R.</b> ; Lindeyer, S. E. D.; Brückner, C.	Apr-18
"Extraction and Analysis of Tetrapyrrolic Compounds from Avian Eggshells and Hedgehog Quills" Poster, Bridge to Doctorate Poster Session, UConn, Storrs, CT.	<b>Hamchand, R.</b> ; Lindeyer, S. E. D.; Brückner, C.	May-17
A Numerical Framework for Evaluating Flood Inundation Hazard under Different Dam Operation Scenarios—A Case Study in Naugatuck River. Water 2018, 10(12), 1798; <a href="https://doi.org/10.3390/w10121798">https://doi.org/10.3390/w10121798</a>	<b>Sage Hardesty</b> , Xinyi Shen, Efthymios Nikolopoulos and Emmanouil Anagnostou	2018
Dietary Polyphenols, Berries, and Age-Related Bone Loss: A Review Based on Human, Animal, and Cell Studies. Antioxidants 3, 144-158, 2014 Mar; <a href="https://doi.org/10.3390/antiox3010144">doi:10.3390/antiox3010144</a>	<b>Hubert, P.</b> , Lee, S.G., Lee, S-K., Chun, O.K.	Mar-14
Anthocyanin-rich black currant extract attenuates ovariectomy-induced bone loss in mice. J Medicinal Food 19(4):390-7, 2016 Apr	Zheng, X., Mun, S.H., Lee, S.G., Vance, T.M., <b>Hubert, P.</b> , Koo, S.I., Lee, S.K., Chun, O.K.	Apr-16
Validation of analytical methods for plasma total antioxidant capacity by comparing with urinary 8-isoprostane level. J Microbiol Biotech (In revision; Submitted in April 19, 2016)	Lee, S.G., Wang, T., Vance, T.M., <b>Hubert, P.</b> , Kim, D.O., Koo, S.I. Chun, O.K.	Apr-16

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The relationship of aronia polyphenol bioavailability and metabolism to its cholesterol-lowering activity in former smokers. Berry Health Benefits Symposium 2015. Madison, WI. Oct. 13-15, 2015.	Bolling, B.W., Xie, L., Vance, T.M., Lee, S.G., <b>Hubert, P.</b> , Wang, Y., Kim, B., Lee, J.Y., Chun, O.K.	Oct-15
The relationship of aronia polyphenol bioavailability and metabolism to its cholesterol-lowering activity in former smokers. 2015 International Society for Nutraceuticals and Functional Foods Annual Meeting. Wuxi, China, Sept 20-23, 2015.	Bolling, B.W., Xie, L., Vance, T.M., Lee, S.G., <b>Hubert, P.</b> , Wang, Y., Kim, B., Lee, J.Y., Chun, O.K.	Sep-15
Body weight status are associated with biomarkers of inflammation and bone turnover in former smokers. 2015 Experimental Biology Meeting, Boston, MA, March 28-April 1, 2015	Lee, S.G., Vance, T.M., <b>Hubert, P.</b> , Xie, L., Kim, B., Lee, J.Y., Bolling, B. W., Lee, S.K., Chun, O.K.	2015
Evaluation of analytical methods for measuring plasma antioxidant capacity by comparing with urinary 8-isoprostane concentration. 2015 Experimental Biology Meeting, Boston, MA, March 28-April 1, 2015	Lee, S.G., Wang, T., Vance, T.M., <b>Hubert, P.</b> , Koo, S.I., Chun, O.K.	2015
Anthocyanin-rich black currant extract attenuates ovariectomy-induced bone loss in mice. Experimental Biology Meeting, San Diego, CA, April 26-30, 2014	Zheng, X., Mun, S.H., Lee, S.G., Vance, T.M., <b>Hubert, P.</b> , Koo, S.I., Lee, S.K., Chun, O.K.	Apr-14
Nutrient Adequacy of the U.S. population by Smoking Status: A Cross-Sectional Study with the National Health and Nutrition Examination Survey 2005-2010. University of Connecticut CNAR Graduate Student Research Forum, March 29, 2014	<b>Hubert, P.</b> , Vance, T.M., Chun, O.K.	Mar-14
Effects of winter deicing on groundwater quality beneath permeable asphalt. Bridge to Doctorate poster symposium, Storrs CT Geoscience Research symposium, Storrs CT.	<b>McNaboe L. A.</b> , Dietz, M., Robbins, G.	2016
Permeable Asphalt: A New Tool to Reduce Road Salt Contamination of Groundwater in Urban Areas. Groundwater. doi:10.1111/gwat.12454	Dietz, M. E., Angel, D. R., Robbins, G. A. and <b>McNaboe, L. A.</b>	2016
Mobilization of radium and radon by deicing salt contamination of groundwater. Under review (first round-submitted 8/1/16) at Water, Air, & Soil Pollution.	<b>McNaboe, L.A.</b> , Robbins, G.A., Dietz, M.E.	Aug-16
"Ternary Phase Interactions between Copper, Iron, and Organic Matter". Poster Presented at the AEESP Conference, Ann Arbor, MI	<b>Mendes, R</b>	Jun-17
"In Situ AFM of Electro-Mechanically Actuating Systems," J. Materials Research, 30 (3), 429-441.	<b>M. Rivas</b> , A. Carter, O. V. Kolosov, R. Polcawich, B. D. Huey	2015
"Optimization of IrO2 as a top electrode for PZT devices," Electronic Materials and Applications, Orlando, FL.	<b>M. Rivas</b> , D. M. Potrepka, B. D. Huey, R. G. Polcawich	2016
"Nanoscale Mapping of Microscale Piezoactuators," Electronic Materials and Applications, Orlando, FL.	<b>M. Rivas</b> , B. D. Huey	2014
"Novel Nanomechanics Investigations," Aarhus University School of Engineering Seminar, Aarhus, DK.	<b>M. Rivas</b> , B. D. Huey	2013
"Property Enhancements of Micro- and Nano- Structured Piezoelectrics," Electronic Materials and Applications, Orlando, FL.	L. Ye, <b>M. Rivas</b> , B. D. Huey	2016
"Radiation-induced changes of vacancy-type defects in ferroelectric capacitors as revealed by Doppler broadening positron annihilation spectroscopy, Journal of Applied Physics 124 (24), 244105.	H. Zhou, M. Liu, S.C. Williams, L.A. Griffin, C.D. Cress, <b>M. Rivas</b> , R.Q. Rudy	2018
Effect of IrO2/Pt, IrO2, and Pt bottom electrodes on the structure and electrical properties of PZT based piezoelectric microelectromechanical system devices", Journal of Materials Science: Materials in Electronics 29 (13), 11367-11377	D.M. Potrepka, <b>M. Rivas</b> , H. Yu, M. Aindow, G.R. Fox, R.G. Polcawich	Jan-18
"Accounting for the various contributions to pyroelectricity in lead zirconate titanate thin films", Journal of Applied Physics 123 (12), 124104.	B. Hanrahan, <b>Y. Espinal</b> , C. Neville, R. Rudy, <b>M. Rivas</b> , A. Smith, M.T. Kesim, S.P. Alpay	2018
"Iridium Oxide (IrO2) as a Top Electrode for Ferroelectric Micro-Electro-Mechanical Systems (MEMS) Devices for Radiation Rich Environments", PhD thesis.	<b>M. Rivas</b>	2018
"Nanoscale Mapping of In-Situ Micro Electro-Mechanical Systems with Atomic Force Microscopy", MS thesis.	<b>M. Rivas</b>	2018
"Characterization of IrOx sputtering for IrO2 and IrO2/Pt bottom-electrode piezoelectric micro-electro-mechanical systems applications", Thin Solid Films 638, 127-137	D.M. Potrepka, <b>M. Rivas</b> , H. Yu, R.G. Polcawich, M. Aindow, G.R. Fox	Feb-17
Phenomenological model for defect interactions in irradiated functional materials", Scientific reports 7 (1), 5308.	S.J. Brewer, C.D. Cress, S.C. Williams, H. Zhou, <b>M. Rivas</b> , R.Q. Rudy, Ronald G Polcawich, Evan R Glaser, Jacob L Jones, Nazanin Bassiri-Gharb	May-17
"Total Ionizing Dose Effects on Piezoelectric Thin-Film Cantilevers With Oxide Electrodes", IEEE transactions on ultrasonics, ferroelectrics, and frequency control 64.	R.Q. Rudy, K.M. Grove, <b>M. Rivas</b> , J. Guerrier, C. Cress, R.R. Benoit, J.L. Jones, Evan Glaser, Steven Brewer, Nazanin Bassiri-Gharb, Ronald G Polcawich	Mar-17
"Enhanced radiation tolerance in Mn-doped ferroelectric thin films", Applied Physics Letters 111 (2), 022906.	S.J. Brewer, S.C. Williams, L.A. Griffin, C.D. Cress, <b>M. Rivas</b> , R.Q. Rudy, R.G. Polcawich, E.R. Glaser, N. Bassiri-Gharb	Apr-17
"Effect of microstructure on irradiated ferroelectric thin films", Journal of Applied Physics 121 (24), 244102.	S.J Brewer, H. Zhou, S.C.Williams, R.Q. Rudy, <b>M. Rivas</b> , R.G. Polcawich, Cory D Cress, Evan R Glaser, Elizabeth A Paisley, Jon F Inlefeld, Jacob L Jones, Nazanin Bassiri-Gharb	Apr-17
"Effects on Ferroelectric Thin-Film Stacks and Devices for Piezoelectric MEMS Applications at Varied Total Ionizing Dose (TID)", US Army Research Laboratory Adelphi United States	<b>M. Rivas</b> , S.J. Brewer, C. Callaway, H. Zhou, R.Q. Rudy, E.R. Glaser, C.D. Cress, Jonathan E Guerrier, Jacob L Jones, Nazanin Bassiri-Gharb, Ronald G Polcawich	2017
"Nanoscale mapping of in situ actuating microelectromechanical systems with AFM", Journal of Materials Research 30 (3), 429-441	<b>M. Rivas</b> , V. Vyas, A. Carter, J. Veronick, Y. Khan, Oleg V Kolosov, Ronald G Polcawich, Bryan D Huey	

Publications of past Bridge To The Doctorate Fellows

Publication Title	Names (UConn B2D Fellows in bold)	Date of Publication
Investigation into the Oligomeric Species of Mdm12, A Member of the ER-Mitochondria Encounter Structure. Northeast Structure Symposium, Storrs, CT. Poster.	<b>Sanford, N.E.</b> , Erlandsen, H., Coscia, A., Daman, T.H., Alder, N.N., Robinson, V.L.	2015
Structural and Lipid Binding Investigation of Mdm12, a Member of the ER-Mitochondria Encounter Structure. Molecular and Cellular Biology Retreat. Poster	<b>Sanford, N.E.</b> , Daman, T.H., Alder, N.N., Robinson, V.L.	Sep-14
Sorption and coprecipitation of copper to ferrihydrite and humic acid organomineral complexes and controls on copper availability. Chemosphere 147:272-278.	<b>Seda, N.</b> , F. Koenigsmark, T.M. Vadas	2016
Copper sorption and lability from iron oxide and organic matter coprecipitates. ACS National Meetings, Denver, CO. PP.	Koenigsmark, F., <b>N. Seda</b> , T.M. Vadas	2015
Iron oxide – organic matter coprecipitates and controls on copper fate and transport in wetlands. ACS National Meeting. OP.	<b>Seda, N.</b> , F. Koenigsmark, T.M. Vadas	2014
Iron oxide – organic matter coprecipitates and controls on copper availability in wetlands. Connecticut Conference on Natural Resources. PP.	<b>Seda, N.</b> , F. Koenigsmark, T.M. Vadas	2014
Herbarium Collections Reveal Trends to Climate Throughout South Africa. Plant Diversity in the Greater Cape Floristic Region: From Genomes to Biomes Seminar. South African National Biodiversity Institute, Cape Town, South Africa.	<b>Williams, T.M.</b> , Holsinger, K.E., and C. Schlichting	2015
Plastic Responses across the genus Pelargonium L'Her. to Climate Change. University of Connecticut, Bridge to Doctorate Poster Session, Storrs, CT.	<b>Williams, T.M.</b> , Holsinger, K.E., and C. Schlichting	2015
Pelargonium Persistence in a Changing Climate. University of Connecticut, Bridge to Doctorate Poster Session, Storrs, CT.	<b>Williams, T.M.</b> , Holsinger, K.E., and C. Schlichting	2014
Pelargonium Persistence in a Changing Climate. Smithsonian Botanical Symposium, Smithsonian Museum of Natural History and U.S. Botanic Garden, Washington, DC.	<b>Williams, T.M.</b> , Holsinger, K.E., and C. Schlichting	2014
TMS Annual Meeting and Exhibition, "Ultra-High Strength Above 10GPa and short-range atomic order of amorphous boron." – Oral presentation	<b>Maita, J.</b> , Song, G., Colby, M., Lee, S.-W	Mar-19
Uniaxial Compression Tests of Amorphous Boron at the Micrometer Scale. Presentation for the ICSSMA 18, Columbus, OH. – Oral presentation	<b>Maita, J.</b> , Song, G., & Lee, S.-W.	Jul-18
"Ultra-High Strength Above 10GPa and short-range atomic order of amorphous boron." – Poster presentation, Materials Research Society 2018 Fall Meeting.	<b>Maita, J.</b> , Lee, S.-W	Nov-18
Atomic arrangement and mechanical properties of chemical vapor deposited amorphous boron. Poster for the ECI Nanomechanical Testing in Materials Research and Development VII. – Poster presentation.	<b>Maita, J.</b> , Song, G., Colby, M., Lee, S.-W	Sep-19
Dec.2-6, 2019, Boston, MA, MRS	<b>Jessica Maita</b>	Dec-19
Feb 24-27, 2020, San Diego, CA, TMS	<b>Jessica Maita</b>	Feb-20
Flame Retardant and Hydrophobic Cotton Fabrics from Intumescent Coatings. Advanced Composites and Hybrid Materials 2018, 1, 177-184.	Zhang, D.; <b>Williams, B. L.</b> ; Becher, E. M.; Shrestha, S. B.; Nasir, Z.; Lofink, B. J.; Santos, V. H.; Patel, H.; Peng, X.; Sun, L.	2018
Flame retardant and hydrophobic coatings on cotton fabrics via sol-gel and self-assembly techniques. Journal of Colloid and Interface Science 2017, 505, 892- 899.	Zhang, D.; <b>Williams, B. L.</b> ; Becher, E. M.; Shrestha, S. B.; Nasir, Z.; Lofink, B. J.; Santos, V. H.; Patel, H.; Peng, X.; Sun, L.	2017
"RFID-Based Crack Detection of Ultra High- Performance Concrete Retrofitted Beams", Sensors 2019, 19(7), 1573.	Benjamin Bruciati, Shinae Jang and <b>Pierre Fils</b>	Apr-19
"Establishing Through-Shell Communication for direct control of switchable catalysts" ACS Green Chemistry Summer School, Golden, Colorado.	<b>Cristian Aviles-Martin</b>	Jul-19
NSF – LSAMP - AAAS February 2019, Washington, D.C.	<b>Cristian Aviles-Martin</b>	Feb-19
"Photodegradation of Organic Dyes using CdS/Te Quantum Dots", Techconnect National Innovation Conference, National Harbor, MD	<b>C. Aviles-Martin</b> , L. Alamo-Nole	May-17
"Characterization of CdSSe and CdS/Te quantum dots prepared via microwave assisted synthesis". Abstracts of Papers, 251st ACS National Meeting & Exposition, San Diego, CA, United States, March 13-17, 2016, COLL-267.	<b>Aviles, C.</b>	Mar-16
Heat shock protein response during a prolonged running event in hot and humid conditions.	<b>Lopez III, V.</b>	2018
Heat shock protein response during a 100-mile cycling event in hot and humid conditions.	<b>Lopez III, V.</b>	2018
Adsorption Properties of Functionalized STAM-17-OEt Metal–Organic Framework with Density Functional Theory", November 18-21 2019, St. Louis, MO. - Oral Presentation	<b>Uchenna A. Anene</b> and S. Pamir Alpay	Nov-19
Ferroelectric Domain Switching in BFO/CFO Vertically Aligned Nanocomposites as a Function of Epitaxial Interface Proximity and Magnetic Poling. Electronic Materials and Applications conference, Orlando, FL. - Oral Presentation	<b>Luis Ortiz</b>	Jan-20

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Publication Title	Names (UConn B2D Fellows in bold)	Date of Publication
"A Brain Computer Interface to Control a Boe-Bot Robot", Poster Presentation at UConn Frontiers	<b>I'jaaz Muhammad</b>	Sep-19
"Enhancing the Efficiency of Catalytic Processes by Encapsulation of Homogeneous Catalysts." UConn Chemistry Poster Presentation	<b>Kevin Rivera</b>	Mar-19
"6 Layer Quantum Dot Supper Lattice for Logic and Solar Cell Applications", CMOG, Poster Presentation, Orange, CT.	<b>Roman Mays</b>	Mar-19
"Atomic Arrangement and Mechanical Properties of Chemical Vapor Deposited Amorphous Boron" Malaga, Spain, ECI, Poster Presentation.	<b>Jessica Maita</b>	Oct-19
"Role of Grain Boundaries in Plasticity and Fracture of Nanocrystalline MgAl <sub>2</sub> O <sub>4</sub> " San Diego, CA, TMS, Oral Presentation.	<b>Jessica Maita</b>	Feb-20
GEM Grad Lab - Boston, MA	<b>Brandon Williams</b>	Nov-18
NELSAMP - Kingston, RI.	<b>Brandon Williams</b>	Feb-18
NELSAMP fall symposium and GEM Grad Lab; Panelist, mentoring & presentation to LSAMP students. - Boston, MA	<b>Pierre Dens Fils</b>	Oct-19
GEM Grad Lab as panelist and talking with LSAMP student to recruit to Graduate School. - Boston, MA	<b>Godwin Dzidotor</b>	Oct-19