

2018 UNDERGRADUATE RESEARCH POSTER SESSION

September 6, 2018 Student Center Atrium



It is my great pleasure to welcome you to the poster session of the 2018 Undergraduate Summer Research Award Program.

We use this event to raise awareness of the amazing research and scholarship being conducted at CSU, as well as highlight its relevance for personal, academic, and professional development.

This summer CSU's Office of Research sponsored 55 research projects from six colleges, involving 77 of our finest undergraduate students. The advisors of these projects are among the most outstanding faculty at CSU. The projects comprise a fascinating and diverse snapshot of the research and scholarship at the University, spanning areas such as cancer research, social media use, sexual health, rehabilitation, climate change, diversity issues, human tissue generation, and many others.

Some of this research will appear in professional conferences, and some will be published in academic research journals. Some of these students will go on to earn graduate degrees here or elsewhere. All of them will be able to use this experience as a springboard to even bigger and better accomplishments in their future academic efforts and careers. Thank you for coming to the 2018 Undergraduate Research Poster Session – I know that you'll enjoy seeing and hearing about CSU's undergraduate research and scholarship!

Jerzy T. Sawicki
Vice President for Research
Cleveland State University

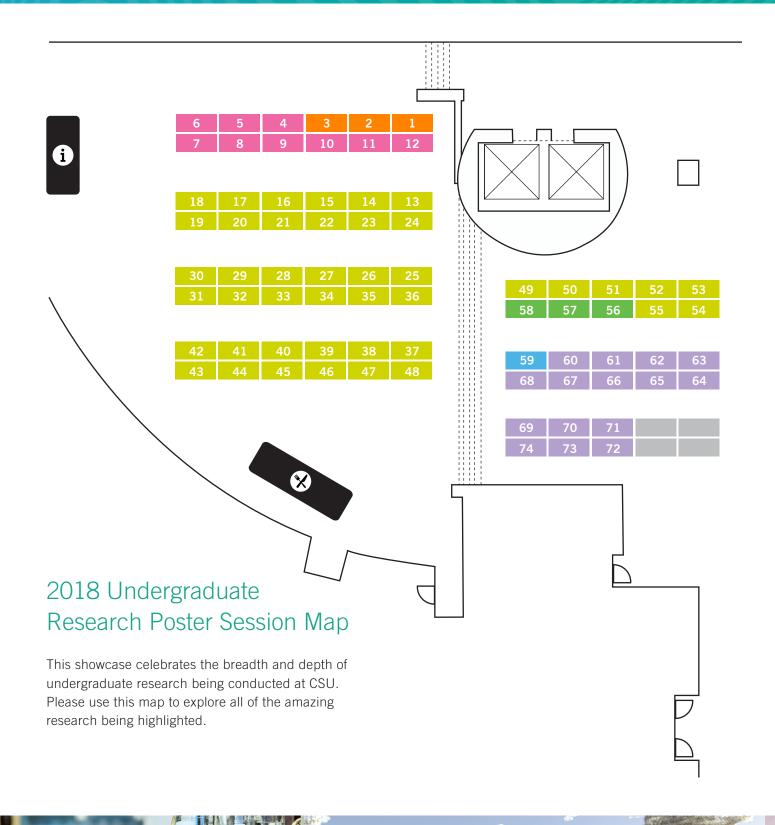
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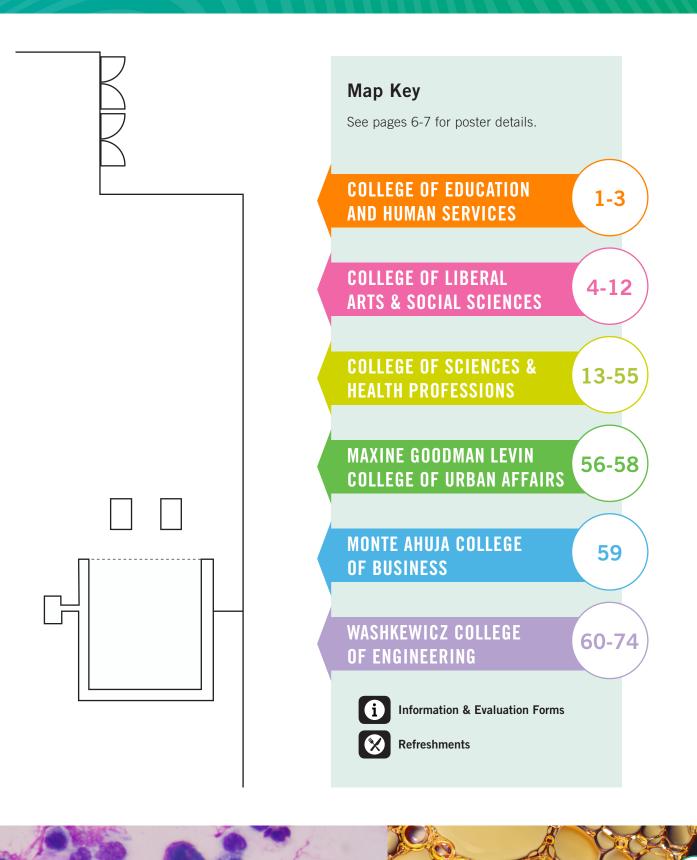


Research is thriving at Cleveland State University! Our annual Undergraduate Research Poster Session highlights the outstanding contributions that CSU undergraduates are making to knowledge creation and its application to real-life issues, for the benefit of our community, our nation and our world. Please join me in celebrating the accomplishments of our student-scholars and the world-class faculty who advise them.

Harlan M. Sands

Harlan M. Sands
President
Cleveland State University





Undergraduate Research Posters

COLLEGE OF EDUCATION AND HUMAN SERVICES

1. King-White, Dakota Assessing the social, emotional, and mental health needs in urban schools 2. Liao, Kelly Yu-Hsin The harmful effects of the strong black women ideal: A mediation model

3. Chan, Paula Evaluating three methods for recruiting student feedback in the college classroom

COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES

4. Berry, Anne / DeBoth, Kelle / Schaefer, John

How can content management systems be customized for better user experience?

5. Li, Qian

Bubble suit animation

6. Novisky, Meghan

The impacts of trauma exposure and differential access to medical services on the

incarceration experience

7. Wanyerka, Phil

Archaeological investigations at the Fort Hill earthwork complex Oral histories: Out of the archive and into the classroom

8. Rose, Shelley / Souther, Mark 9. Olszewski, Carol

RAS expanded: Visual and tactile cueing for individuals with gait disorders

10. Lieske, Joel

Trumped: How Donald J. Trump defied the odds and won the presidency

11. Fuller, Kimberly / Clonan-Roy, Katie

19. Li, Bibo

How does current sex education perpetuate rape culture?

12. Medina-Rivera, Antonio

Rauschert, Emily

Intercultural bilingual education in the urban Andes

13-55 COLLEGE OF SCIENCES AND HEALTH PROFESSIONS

13. Dean, Jeffrey Influence of stimulus amplitude on African clawed frogs' choices between two stimuli

14. Gore-Panter, Shamone The use of retinoic acid to promote atrial and ventricular "like" cells

15. Kim. Hee-Sook Roles of H3v in Trypanosoma brucei

16. Kondratov, Roman Circadian clock proteins CRYs are involved in control of diet dependent ACOT expression

17. Kondratov, Roman Effect of feeding regimens of YAP signaling

18. Krebs. Robert Changes in Alzheimer's models in response to neuroprotective compound

Screen for interacting factors for Trypanosoma brucei telomere protein RAP1

20. Mueller, Kevin / Quantifying the ability of common invasive shrubs to acquire and use water, to tolerate

drought, and compete with native plants within Holden Arboretum, Ohio

21. Rauschert, Emily Weed communities in urban agriculture

22. Sam-Yellowe, Tobili Expression of full-length recombinant Plasmodium falciparum PfMC-2TM

23. Santiago, Josué Simulation of abiotic hurricane effects on lotic meiofauna abundance and composition

24. Severson, Aaron A targeted genetic screen to identify meiotic cohesin regulators 25. Severson, Aaron Meiotic drive in C. elegans: A violation of Mendel's second law

26. Vitali, Jacqueline Toward the crystallization of an archaeal dihydrorotase

Anti-thrombotic coatings for blood contacting medical decives and implants 27. Bayachou, Mekki

28. Berdis, Anthony Increasing the efficacy of doxorubicin against breast cancer

29. Sandlers, Yana Dodecanedioic acid treatment in VLCAD fibroblasts

30. Su, Bin Off targets toxicological investigation of anti-cancer tubulin inhibitors 31. Sun, Xue-Long Synthesis of sialic acid derivative for modifying cell surface sialylation

32. Zhou. Aimin TMCO1 is a novel target for cancer chemotherapy Peer quizzing: Are two heads really better than one? 33. Bickel, Jessica / Heus, Thijs

34. Fodor, Petru / Streletzky, Kiril Characterization of microgels in ionic liquids

35. Resnick. Andrew Construction and applications of an inexpensive muon detector

The effects of chemical crosslinker on polymeric microgels 36. Streletzky, Kiril / Kaufman, Miron

37. Streletzky, Kiril / Kaufman, Miron Towards understanding microgel volume phase transitions 38. Heus, Thijs / Ryan, Shawn An alternative means for observation-based cloud size distributions Characterizing the turbulent structure of the CBL and the entrainment 39. Heus, Thijs / Ryan, Shawn

40. Heus, Thijs / Ryan, Shawn Determining cloud cover with machine learning

41. Heus, Thijs / Ryan, Shawn Investigating the influence of cloud size on cumulus cloud entrainment 42. Goncy, Elizabeth

43. Naser, Shereen / Goncy, Elizabeth

44. Rowlett. Maria

45. Smith, Albert F.

46. Smith, Albert F.

47. Smith, Albert F.

48. Espy, Debbie

49. Hammonds, Michael / Sahley, Tony / Woodside, Brian

50. Jeziorowski, John

51. Knackstedt, Rebecca

52. Lammers, Andrew

53. Reinthal, Ann / Ekelman, Beth

54. Wendland, Madalynn / Giuffre, Suzanne / DeMarco, Jodi

55. Yorke, April

The impact of the mother-daughter relationship on teen pregnancy Perspectives on adolescent drug use: Interviews with community providers

Perception of time and post-surgery physical rehabilitation

The impact of adjacent-letter flanking bigrams on lexical decision performance

Reading between the bigrams

Programming to transition psychological experiments from SuperLab to MATLAB

Development of a controlled harness system to increase flexibility

Learning to do in vivo neural responses in mice

Case concentration: An academic arcade game for physical therapist education Indication of abdominal wound complication within breast cancer reconstruction

Effects of greater palatine nerve anesthesia on hyoid musculature Balance training using the multi-directional harness system

The T.E.A.M approach to interprofessional education

Reading-related phonological processing interventions

Environmental certification program ISO 14001

MAXINE GOODMAN LEVIN COLLEGE OF URBAN AFFAIRS

56. Rubado, Meghan / Kaufman, Sanda

57. Tighe, J. Rosie

Effectiveness of anti-discrimination policies: An analysis of housing advertisements

58. Wukich, Clayton

The formation of Twitter networks among U.S. city mayors

MONTE AHUJA COLLEGE OF BUSINESS

59. Gallagher, Vickie Coleman / Porter, Tracy / Valcea, Sorin / Baran, Ben

Socioeconomic mobility of local refugees: An analysis of Syrian, Congolese and Ukrainian / Russian refugees



60-74 WASHKEWICZ COLLEGE OF ENGINEERING

60. Ao, Geyou

61. Damaser, Margot

62. Gatica, Jorge

63. Gumma, Sasidhar

64. Holland, Nolan

65. Kothapalli, Chandrasekhar / Fodor, Petru / Borkar, Tushar

66. Kothapalli, Chandrasekhar / Fodor, Petru / Borkar, Tushar

67. Lee, Moo-Yeal

68. Lee. Moo-Yeal

69. Tewari, Surendra

70. Wirth, Christopher / Ryan, Shawn

71. Jenkins, Jacqueline

72. Zhao, Wenbing 73. Borkar, Tushar

74. Borkar, Tushar

Surface functionalization of pure-chirality carbon nanotubes

Treatment of non-epithelial vaginal cells from lysyl oxidase

Multi-phase waste gasification – reaction engineering for sustainable living environments

Investigating particle size manipulation for the metal organic framework Cu-BTC

Characterizing complexes of DNA and elastin-like polypeptides

Methodology development for the implementation of microfluidic mixers

Implementation of a reverse staggered-herringbone microfluidic mixer for

high-throughput polymer nanoparticle synthesis

Prediction of metabolism-induced neurotoxicity on a 384-pillar plate A 3D cancer cell migration assay on a 384-pillar plate with sidewalls

Dendrite morphology of Pb-5.8 Sb alloy

Boundary effects on the locomotion of active Janus particles

Civil engineering surrounds you

Virtual reality based serious games for STNA training Spark plasma sintering of soft magnetic materials

Comparative study of the microstructure and mechanical properties of high entropy alloys

