

Carnegie Mellon University

dialogue
across disciplines

showcase
educational research

disseminate
innovative teaching

TEACHING & LEARNING
SUMMIT
2017

Thursday, October 19, 2017

1:00-5:00pm, Cohon University Center

www.cmu.edu/teaching/summit

Eberly Center

Teaching Excellence & Educational Innovation



Teaching & Learning Summit Advisory Committee

Maggie Braun, Biological Sciences, MCS
Daragh Byrne, IDeATe and Architecture, CFA
Keith Cook, Biomedical Engineering, CIT
Lauren Cook, Civil & Environmental Engineering, CIT
Drew Davidson, Entertainment Technology Center, CFA
Clive Newstead, Mathematical Sciences, MCS

Jeria Quesenberry, Information Systems, DC
Silvia Mata-Marin, Design, CFA
Juliann Reineke, English, DC
Majd Sakr, Computer Science, SCS
Patrick Walsh, Philosophy, DC
Garth Zeglin, IDeATe & Robotics Institute, SCS

Eberly Center for Teaching Excellence & Educational Innovation

Marsha Lovett, Associate Vice Provost for Teaching Innovation & Learning Analytics,
Eberly Center Director, & Teaching Professor, Psychology

Chad Hershock, Director of Faculty & Graduate Student Programs

Judy Brooks, Director of Educational Technology & Design

Michelle Pierson, Business Administrator

Teaching Consultant Team

Jessica Harrell, Teaching Consultant

Sophie le Blanc, Teaching Consultant

Katie Walsh, Teaching Consultant

Emily Weiss, Teaching Consultant

Jacqueline Stimson, Postdoctoral Teaching Consultant

TEL Team

Lorelei Walch, Educational Technology Consultant

Christopher Blakesley, Learning Engineer

Lynn Kojtek, Learning Engineer

Kimberly Larson, Learning Engineer

Steven Moore, Learning Engineer

Raphael Gachuhi, Senior Software Engineer

Meg Richards, Senior Software Engineer

Diana Bajzek, Senior Technology Solutions Specialist

Assessment Team

Elizabeth Ann Whiteman, Assessment Consultant

Michael Melville, Data Science Research Associate

Soniya Gadgil, Postdoctoral Data Science Research Associate

agenda

CMU faculty, graduate students, post docs, and staff are great innovators,
not only in their scholarly and creative works, but in their teaching as well.

The Teaching & Learning Summit celebrates and showcases the exciting ideas
and evidence-based approaches that our colleagues are applying here at CMU and beyond.

1:00pm Plenary Session: Inclusive Teaching Strategies



Dr. Sara Armstrong from the University of Michigan's Center for Research on Learning and Teaching presents the CRLT Players for a highly interactive session on inclusive teaching strategies.

Participants will be presented with research-based scenarios regarding how students can be marginalized, explicitly or implicitly, in the college classrooms. Participants will engage in guided roundtable discussions on the issues raised and how to apply evidence-based strategies for creating a welcoming learning environment that supports learning for all students.

2:30pm Break

2:45pm Interactive Concurrent Sessions: Quick-Fire Talks & Roundtables

- Rapidly showcasing innovative and effective teaching provided by 12 CMU faculty, 7 minutes and 7 slides each.

3:45pm Break

4:00pm Networking Sessions & Appetizers

- Show-n-TEL (Technology-Enhanced Learning) Demonstrations
 - Teaching as Research Poster Session
-

quickfire talks

2:45pm (in designated rooms)

This format provides a way to rapidly showcase innovative and effective teaching.
Go to the location listed to hear a series of faculty talks followed by roundtable discussions and Q&A.

LOCATION: Peter/McKenna/Wright

**Virtual Engineering
In Minecraft: Helping
Students Visualize And
Manipulate Material
Properties**

Reeja Jayan
CIT

**Gearing Up For
Research The Machine
Learning Way: An
Authentic In-class
Conference Experience**

Ryan Tibshirani
SCS/DC

**Speed Dating
Enhances
Active Learning**

Randy Weinberg
DC

**Collaboratively
Grading
Interdisciplinary
Projects
In ETC Courses**

Drew Davidson
CFA, ETC

LOCATION: Connan

**How Can You Use
Active Learning And
iClickers To Make A
Large Lecture Feel Like
A Small Class?**

Christina Bjorndahl
DC

**Development Of
Tools And Methods
For Teaching Writing
In STEM At The
Graduate Level**

Catalina Achim
MCS

**Social Media In
Engineering:
Connecting Course
Concepts To The Real
World With Twitter**

Costa Samaras
CIT

**Active Learning To
Interpret And
Critique Research**

Brian Kovak
HNZ

LOCATION: Danforth Conference Room

**Creating Historians:
Using Canvas
Discussion Posts To
Develop Analytical
Writing Skills**

Katie Walsh
DC

**Engineering Data
Intensive Scalable
Systems: Experiences
Flipping The
Classroom**

Matt Bass
SCS

**Chemcollective:
Interactive
Simulations To
Promote Conceptual
Learning Of Chemistry**

Dave Yaron
MCS

**Teaching Writing Skills
Via Collaborative
Rhetorical Analysis**

Beth Walter
HNZ

show-n-tel

4:00pm Rangos Ballroom

Demonstrating the exciting Technology-Enhanced Learning projects that our colleagues are applying here at CMU and beyond.

college of engineering

Bedillion, Mark
CIT, Mechanical Engineering
Electronics For Non-Majors with NScope

Nace, Bill
CIT, ECE
Piazza As A Q&A Tool For Large Classes

Weinberg, Justin
CIT, Chemical Engineering
Chem101: Next-Generation Active Learning Tools For Chemistry Students

college of fine arts

Byrne, Daragh
CFA, Architecture
The Gallery

dietrich college

Kaufer, David
DC, English
Classroom Salon: Creating Deep Discussions Over Course Materials

Kaufer, David
DC, English
Teaching Grammar In OLI Environment

Wetzel, Danielle
Werner, Necia
Ishizaki, Suguru
Kaufer, David
DC, English
Seltman, Howard
DC, Statistics and Data Science
Poznahovska, Maria
Helberg, Alex
DC, English
Chang, Yuxi
DC, Statistics

Improving Writing Instruction With Classroom DocuScope

Ishizaki, Suguru
Kaufer, David
Moreau, CP
Ringler, Hannah
DC, English

OnTopic: TEL Environment For Strengthening Topical Cohesion In Writing

Sooriamurthi, Raja
DC, Information Systems Program
Using Jupyter Notebook To Teach SQL

Harrell, Mara
DC, Philosophy

OLI Argument Diagramming Course

Tang, Xiaofei
Li, Qiong
Taguchi, Naoko
DC, Modern Languages

Learning Chinese Formulaic Expressions In A Multi-modal Interactive Environment

Tsai, Aurora
DC, Modern Languages
Technology-Enhanced Activities To Support Foreign Language Literacy And Cultural Reflection Skills

Wu, Sue-mei
DC, Modern Languages
Let's GO!: Follow Me For Innovative TEL Language And Culture Learning

heinz college

Burckhardt, Philipp
Chouldechova, Alexandra
HNZ, Statistics
Nugent, Rebecca
DC, Statistics

The ISLE Experience: Enhancing Classroom Instruction With Interactive E-Learning Tools

Harty, Martha
HNZ, Across all programs
Collaborative U In OLI: Easy Intervention Improves Efficacy In Student Project Teams

Hyatt, Kim
HNZ, Communications
Using Virtual Reality (VR) As An Instructional Tool

school of computer science

Cook, Amy
SCS, HCII
Hammer, Jessica
SCS, HCII/ETC
Dow, Steven
SCS, UCSD

PeerPresents: An In-class Peer Feedback System

MacLaren, Benjamin
Corbett, Albert
McLaren, Bruce
SCS, HCII
Mitchell, Aaron
Lopez, Javier
SCS, Biological Sciences

Pathway Algebra For 21st Century Biology

tepper school of business

Henry, Kim
TPR, MBA Program
Applying Canvas Features To Support Group Projects And Collaboration

Monroe, Bob
TPR, Business Technologies
Effective (re) Use Of Canvas Across Online Hybrid And In-Person Courses



teaching as research

POSTER SESSION

4:00pm Rangos Ballroom

college of fine arts

Scupelli, Peter
CFA, School Of Design
Brooks, Judy
Eberly Center

**Lessons Learned Overhauling An
OLI-based Flipped Class Course To Canvas**

dietrich college

Goss, Margaret
DC, English
**Connecting Course Concepts To
Course Objectives**

Neuwirth, Chris
DC, English
**An OLI-based Tutor For Teaching
Prose Style**

Penman, Will
DC, English
**Learning From Our Teaching By
Reflecting On Iterative Pedagogical
Changes**

Werner, Necia
DC, English
Dickert, Joanna
Wallach, Stephanie
Undergraduate Research Office
Shanmugaraj, Nisha
Global Communications Center
Monahan, Kevin
Career And Professional Development
Center

**Speak Up! A Program For Teaching
Communication Skills To Summer
Undergraduate Researchers**

Owen, Abigail
DC, History
**Low-stakes Reading Quizzes To Promote
Critical Reading And Effective
Note-taking**

Delahay, Anita
DC, Psychology
Lovett, Marsha
DC, Psychology/Eberly Center
**Predicting Performance From
Features Of An Instructional Design
And Their Use**

Eng, Cassandra
Boyle, Kristen
Fisher, Anna
DC, Psychology
**Illustration Design And Beginning
Readers' Attention Allocation And
Comprehension**

Martella, Amedee
Klahr, David
DC, Psychology
**Teaching The Control-of-variables
Strategy Through Different Forms Of
Active Learning**

Nugent, Rebecca
Reinhart, Alex
Wieczorek, Jerzy
Elliott, Peter
Hyun, Sangwon
DC, Statistics & Data Science
**Assessment Of Student Learning And
Misconception Identification In An
Introductory Statistics Course**



teaching as research

POSTER SESSION

4:00pm Rangos Ballroom

heinz college

McCarthy, Michael
Mertz, Joseph
HNZ, ISM
Melville, Michael
Hershock, Chad
Eberly Center

Debriefing Lab Content Using Active Learning Was Found To Improve Performance

Pastor, Lynne
HNZ, School Of Information Systems
Active Learning – Technique And Timing: Does It Matter?

mellon college of science

Brasier, Daniel
Spix, Teresa
MCS, Biological Sciences
Using Blogs As Practice Writing About Original Neuroscience Papers

Braun, Maggie
MCS, Biological Sciences
Gadgil, Soniya
Eberly Center

Harty, Martha
HNZ
Hovis, Kenneth
MCS, Biological Sciences
Lovett, Marsha
DC, Psychology/Eberly Center
Assessing The OLI Course “CollabU” On Students’ Learning And Attitudes Towards Collaboration

Vuocolo, Leonard
MCS, Chemistry
Weiss, Emily
Eberly Center
Exam Wrappers And Their Impact On Improving Exam Performance In Introductory Chemistry

tepper school of business

Henry, Kim
Liang, Pierre
Xue, Wenjie
TPR
Applying Student Engagement And Learning Objective Analyses To Improve Online Accounting Tutorial

school of computer science

Herckis, Lauren
SCS, HCII
Contextualizing Expertise: A Strategy For Maximizing Guest Lectures

Railing, Brian
SCS, CSD
Small Changes, Large Effects

Sakr, Majd
SCS, CSD
Lovett, Marsha
DC, Psychology/Eberly Center
Dashti, Cameron
SCS, CSD
Outcomes Of An Online Course On Academic Integrity With Local And Remote Students

Sankaranarayanan, Sreecharan
Rosé, Carolyn
SCS, LTI
Dashti, Cameron
Sakr, Majd
SCS, CSD
Evaluating The Use Of Transactive Exchange To Form Effective Teams In A Computer Science Course

EBERLY CENTER

upcoming events

Faculty Programs

Special Interest Group (SIG) Inclusive Teaching Strategies

3-part series:

Thursdays, November 2, 9, 16
1:30-3:00pm

— or —

Fridays, November, 3, 10, 17,
11:30am-1:00pm

Seminar Creating Digitally Accessible Slides that Maximize Learning

Tuesday, November 7

2:00-3:30pm

Rangos 1, CUC

REGISTER for
faculty programs at:
[www.cmu.edu/teaching/
facultyprograms/](http://www.cmu.edu/teaching/facultyprograms/)



Graduate Student Seminars

Leveraging Diversity and Promoting Equity in Your Classroom

Wednesday, November 11
5:00-6:30pm

Navigating Issues of Identity and Authority in the Classroom

Spring 2018

Teaching Inclusively: Fostering a Positive Climate for Learning

Spring 2018

REGISTER for
graduate student
seminars at:
[www.cmu.edu/teaching/
gradseminars/](http://www.cmu.edu/teaching/gradseminars/)



Eberly Center

Teaching Excellence & Educational Innovation

Carnegie Mellon University

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