# NOLA Design Educators Conference Preparing Graphic Design Students for Interaction Design Work

**MODERATOR:** 

**Annabelle Gould,** University of Washington



**PANEL:** 

Jennifer Bernstein, Rutgers University–Newark Dan Boyarski, Carnegie Mellon University Sarah Lowe, University of Tennessee

# Briefly describe your program.

How does your program define Interaction Design? How is IxD currently integrated into your curriculum?

# Jennifer Bernstein Rutgers University–Newark

# Rutgers University (public)

### 66,000+ students

8,000 faculty, 14,000 staff

31 schools and colleges in 3 main locations

100+ undergraduate majors, 200+ graduate programs & degrees, & 300+ research centers & institutes

60% of undergraduates engage in original research

### 40,720 students

**f. 1825** Rutgers University-New Brunswick

### 11,314 students

### 6,321 students

f. 1946 Rutgers University-Newark College of Arts & Sciences

Arts, Culture & Media

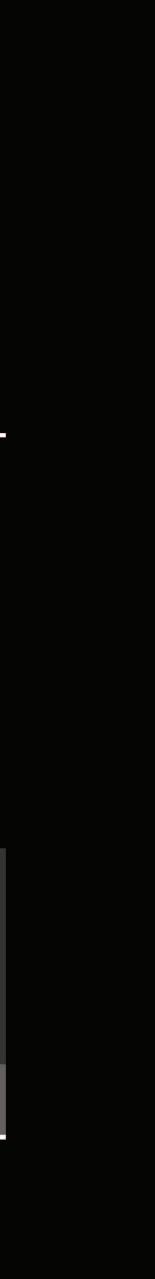
Art, Design c

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**f. 1950** Rutgers University-Camden

# Arts, Culture & Media (ACM)

Graphic Design	Fine Art	Art History	Journalism	Music	Theater	Video Production
B.F.A. Visual Arts (Graphic Design) B.A. in Art (Graphic Design)	B.F.A. Visual Arts (Fine Art) B.A. Art (Fine Art)	B.A. Art History	B.A. Journalism	B.A. Music M.A. Music (Jazz History)	B.A. Theater	B.A. Video Prod.
			80 students			
54 students	33 students			25 students	20 students	25 students
	4 faculty	2 students		5 faculty		
3 faculty	Tracenty	3 faculty	3 faculty		2 faculty	2 faculty



# **B.F.A. in visual art** (concentration in Graphic Design)

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first year		second year		third year		fourth year	
Design Fundamentals	3-D Design Fundamentals	Graphic Design I	Graphic Design II	Graphic Design III	Graphic Design IV	Senior Studio Seminar I	l Senior Studio Seminar II
Introduction to Drawing	Figure Drawing Introduction	Computers in Graphic Design	<b>Motion Design</b> Art Since 1945	History of Design	Seminar in Contemporary Docign	Cross-media Design Studio	Design Consortium*
Introduction to Art History I	to Painting Introduction to	Development of Modern Art	Introduction to Photography	Interactive Design I	Design Interactive	Design Consortium*	Art Elective Art History for
English Composition	Art History II English	Introduction to ACM	History and Literature	Art Elective Social Science	<b>Design II</b> Introduction to Printmaking	Seminar in Contemporary Art	Minor Other Liberal
Quantitative Reasoning	Composition Natural Science	History and Literature		History and Literature	Seminar in ACM	Arts and Media Elective	Arts
		Natural Science			Social Science		

# Interaction Design |vs | Interactive Design

What/how users interact = interaction design

## How information flows to users

= interactive design

graphic design

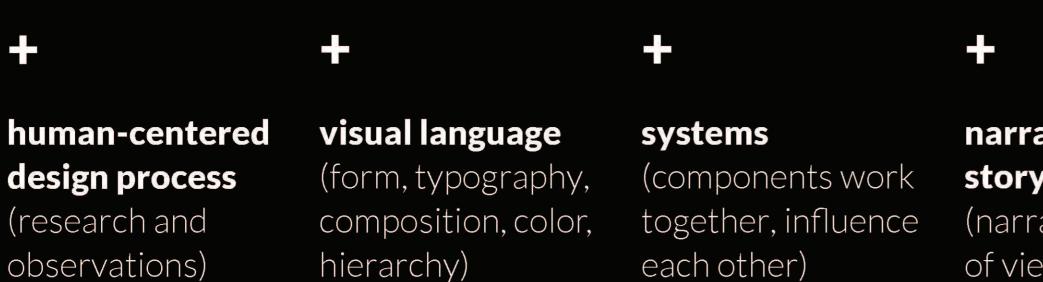
### interactivity

interaction design



# **Interaction Design**

## Research, planning, design, and development of interactive experiences. Components include:



# narrative and storytelling

(narrative arc, point of view, & message sequence)

information as experience

(messages can be experiential)

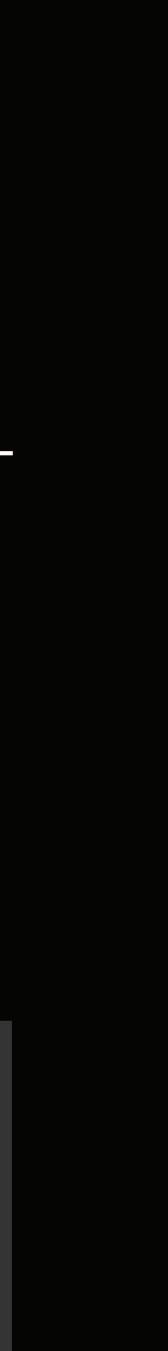
**time and motion** (flow of experience, time as an element, sequence; motion as kinetic behavior & dynamism)

#### -

**basic knowledge of HTML & CSS** (structure and style layers)

The design of cues, visual and other, to facilitate user interaction with a dynamic system.

Exploring the nature of the medium: the element or quality of interactivity.



# Dan Boyarski Carnegie Mellon University

School of Design Carnegie Mellon University Pittsburgh, PA a private, research institution 13,000 students 5,000 faculty & staff

College of Fine Arts: Architecture, Art, Design, Drama, Music

1937, first Design degree granted 1967, BFA in Graphic Design and Industrial Design 2014, BDes in Design (Communications, Products, Environments)

20 full-time faculty **10** adjunct faculty

~150 undergraduate students

Alumni working at R/GA, Apple, Pinterest, Siegel+Gale, Microsoft, MoMA, Whitney Museum of Art, athenahealth, IBM, Google, ....



#### 1986 1982 1992 graphic design + interfaces + interactions

Designing for interaction in print, physical spaces, screens, networked devices, smart devices, .... scale complexity technology communication form



2014, Design for Interactions: We focus on the quality of interactions between people, the built (designed) world, and the environment (natural world).

context : content : purpose : actionco(research & analysis)(iteration of prototyping & evaluation) (delivery)

# context :

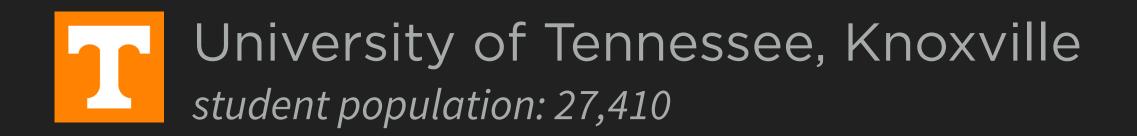
**Design for Interactions:** 

an overarching theme for all our programs a way of thinking when approaching problems an attitude of thoughtful, purposeful action

Integrated into all four years

variety of ways: existing & new projects, research, collaborations variety of contexts: information, healthcare, transportation, activism, education, retail, civic action, publishing, ...

# Sarah Lowe University of Tennessee



Agricultural Sciences & Nat. Res. Architecture & Design Arts and Sciences Business Communication and Information Education, Health, and Human Serv. Engineering Law Nursing Social Work Veterinary Medicine

#### Humanities

Classics English History Modern Foreign Languages & Lit. Philosophy Religious Studies

#### **Natural Sciences**

Biochemistry & Cellular and Mol. Biol.
Biology, Division of
Chemistry
Earth and Planetary Sciences
Ecology and Evolutionary Biology
Mathematics
Microbiology
Physics and Astronomy

#### **Social Sciences**

Anthropology Geography Political Science Psychology Sociology

#### Visual & Performing Arts

### Art, School of

Music, School of Theatre

#### **Interdisciplinary Programs**

Africana Studies American Studies Asian Studies Cinema Studies Comparative Literature Global Studies Judaic Studies Latin American and Caribbean Studies Linguistics Medieval and Renaissance Studies Neuroscience Sustainability Women's Studies

# BA Art History / BA Studio Art / BFA Studio Art / BFA Graphic Design

**FACULTY** 13 across 5 areas

**STUDENTS** 45 in major (approx) 24 applying Dec. 2015

#### FACULTY

Sarah Lowe Interaction Design, Digital Storytelling, Research Methods

Deb Shmerler Branding + Identity, Social Design Research, Typographic Narrative

Cary Staples Info Visualization, Gaming, Intro Design

1 year adjunct

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**STUDENTS** 

31 in major (currently)33 applying Dec. 2015





## **2009-2013** • 80 grads

87% employed in design field

# 56%

employed as full time web / interactive / UX / interaction designers

Altr'd State / Knoxville Amazon / Seattle **Auto Zone / Memphis Bloomberg / NYC** Capital One / Richmond **Channel Company / Raleigh Deco-Pac / Minneapolis Design Sensory / Knoxville DIY Network / Knoxville** Facebook / NYC **FirstBorn Multimedia / NYC** 

## **JOB PLACEMENT**

Google / NYC **Gramercy Tech / NYC** Harvest Creative / Memphis HGTV / Knoxville HHUGE / NYC Jack Henry / Nashville Microsoft / Seattle MondoRobot / Boulder

**Pyxl / Knoxville Red Pepper / Atlanta Robin Easter Design / Knoxville Scripps Network / Knoxville** Sparkart Group / Oakland, CA The Tombras Group / Knoxville Work & Company / NYC Yahoo / NYC

























## **INTERACTION DESIGN**

Transmission across/alongside/through/ within digital spaces with a focus on the user's experience.

IxD at UTK

Concepts of user-centered experience + engagement within digital spaces

Relevance of design principles + elements within digital spaces

Skills that are likely to withstand technical advancements in the near future.

Resourcefulness

### INTERNET OF THINGS Transform analog object into a

smart object

PROTOTYPING USER WORKFLOW

## **INTERACTION DESIGN DEFINITON**

## NODES + PATHS

*Process* + *Information* Architecture

SITEMAP WIREFRAME NAVIGATION PATTERNS

Understand known methods of interaction

**UI KITS** CONSISTENCY ACTION, FEEDBACK, RESPONSE

CMS PROJECT MOBILE PROJECT

APPLY



# University of Tennessee, Knoxville

### FRESHMEN

### SOPHOMORE

Beginning Graphic Design I **EMPHASIS:** conceptual development

**Graphic Design Production** EMPHASIS: design principles + software

#### **PORTFOLO REVIEW**

Idea of Design EMPHASIS: defining design Beginning Graphic Design II *EMPHASIS: design principles* + gestalt + semiotics, type foundations

Interaction Design

# FOCUS ON SKILLS

## **GRAPHIC DESIGN CURRICULUM**

### JUNIOR

Intermed. Graphic Design I EMPHASIS: research methods

Typography I

EMPHASIS: type + image, grid structures, multi-page layout

**BEGIN INTERNSHIPS** 

Intermed. Graphic Design I EMPHASIS: information design + visualization

### SENIOR

# Advanced Graphic Design I EMPHASIS: Branding + Identity

Advanced Graphic Design II *EMPHASIS: self-directed project* (thesis)

# FOCUS ON APPLICATION



What skills do you/your program believe are important for a Graphic Design major/graduate who plans to work as an Interaction Designer?

How are IxD-oriented skills represented in a graphic design portfolio?

How important is "form giving/visual ability" when representing Interaction Design oriented work?

# Who teaches (or will teach) your IxD courses current graphic design faculty, new hires, guests?

What are the benefits/drawbacks of introducing Interaction Design into an existing Graphic Design curriculum?

What kind of feedback have you received from professionals regarding how prepared your graduates are for IxD-oriented work?

What advice do you have for educators who would like to introduce Interaction Design into their curriculum?

# Q + A: Preparing Graphic Design Students for Interaction Design Work

**MODERATOR:** 

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PANEL:

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Dan Boyarski, Carnegie Mellon University dan@andrew.cmu.edu design.cmu.edu

Sarah Lowe, University of Tennessee slowe@utk.edu art.utk.edu/graphic\_design

# Thank you!

Share your thoughts on this panel at #aigadesign and #aigadec

Don't forget to attend one of the Educator Roundtables during lunch today! Celestin FGH 12:30–1:30pm

