CMS.636/855 (Spring 2021):

# **Extending the Museum**

Tuesday & Thursday, 2-3:30 PM, online

Instructor: Kurt Fendt, office hour Tuesdays 10:30 - 11:30 AM or by appointment, email: fendt@mit.edu



Photo: Lascaux IV Museum, Montignac, France (2019)

This project-based Digital Humanities subject investigates the museum as a participatory public space and rethinks visitor engagement and museum education in light of digital technologies. Students develop concepts, models, and prototypes that integrate physical and digital spaces in novel ways in close collaboration with partners at local memory institutions. Weekly readings provide the theoretical, critical, and analytical foundations for collaborative class projects. Exploration and experimentation with technologies such as 360 degrees environments, AR and VR approaches that interface with digital assets, contextual information, and online media lay the technical foundation for group projects. Students choose a final group project at the beginning of class to be developed throughout the semester. In this project, students will have the opportunity to work directly with museums at MIT, Harvard, and the MFA. Students taking graduate version complete additional readings and assignments. Digital Humanities (CMS.633/833) is NOT a prerequisite for this subject.

#### **Further Background**

Memory institutions are currently undergoing significant changes as they are trying to rethink traditional archival, curatorial, and presentation practices in light of emerging forms of visitor engagement, often

spearheaded by digital media. Mobile apps attempt to bring additional information and curatorial perspectives to museum objects, maker spaces seek to engage visitors in a creative museum experience, increased presence on social media enhance visibility, and expanded websites provide online access to unprecedented archival riches. Memory institutions are not only embracing and adapting new media technologies and Digital Humanities methods and tools, they are also developing new ways to more closely merge existing and new practices. Attracting new audiences and expanding the museum experience beyond the physical institution are primary motivations to experiment and leverage new technologies.

### **Format and Requirements**

This course consists of reading discussions, demonstrations of tools and techniques, hands-on project work time, virtual visits to memory institutions and collaboration on final group projects focusing on real-world issues. In addition, guest speakers who work at a variety of Boston-area museums discuss their approaches to and challenges of creating novel visitor experiences with the class via Zoom visits. Students are expected to participate in class discussions on readings, engage in technology explorations, attend online guest lectures, project presentations, and review sessions.

This semester, the class will be conducted entirely online in a mix of synchronous class sessions and asynchronous online work. You are expected to attend Zoom class meetings on Tuesday and Thursdays regularly and on time, to complete assignments before class (post your reading comments, project updates, etc. typically by 10:00 AM on Tuesdays and Thursdays), and to contribute actively and thoughtfully in class discussions. In our Zoom meetings, you should always turn your video and microphone on. This will enable more natural class discussions, especially in a smaller group.

Occasionally, students annotate readings using the tool Annotation Studio and regularly contribute weekly reading comments. museum reviews, as well as project updates on the course's GitHub site. Graduate students are expected to do additional reading assignments and lead class discussions on readings and emerging museum topics. Project teams are formed at the beginning of the semester to work on a final group project throughout the semester refined by multiple review sessions. The project will have to be completed along with a design document by the end of the term.

## **Learning objectives**

After taking this course you should be able to:

- Understand the principles of creating engaging user experiences in museums, galleries, and exhibition spaces, shaped by theoretical readings and project-based work;
- Create concepts, approaches, and implementations for novel visitor experiences in museums, based on
  practical experience with computational methods and tools as well as a basic knowledge of interaction
  design and storytelling principles;
- Use the theories and works presented in this course to frame and support discussions and critiques of contemporary approaches to novel curatorial concepts and visitor experiences in museums.

#### **Grades** will be based on the following criteria:

- Final project (40%), including design paper and prototype (digital/non-digital)
- Short projects (15%)
- Presentations and project updates (15%)
- Class participation (15%)
- Reading comments on Annotation Studio and Github (15%)

Class attendance is required. Unexcused absences result in a lower grade. There will be no final exam in the class.

Students will be annotating selected readings using the web-based tool *Annotation Studio* (Link on Stellar). In addition, students post weekly reading comments, and project updates on our Github site: CMS636.github.io. For each class, a student is responsible for leading the discussion on the assigned readings, graduate students will be assigned additional readings (see syllabus, assignments, and Stellar. The Stellar site for the class is at:

https://learning-modules.mit.edu/materials/index.html?uuid=/course/CMS/sp21/CMS.636

Project work for this class includes working with digital objects, digital spaces, technologies such as Augmented and Virtual Reality interfacing with digital artifacts, metadata, and extracted data in direct collaboration with curators, archivists, artists, designers, and museum curators. Main deliverable for the final class project is a detailed design paper (15 pages) and a functional prototype.

Avoid *plagiarizing*. **Plagiarism** is the use of another's intellectual work without acknowledgment. Full acknowledgment for all information obtained from sources outside the classroom must be clearly stated in all written work submitted. All ideas, arguments, and direct phrasings taken from someone else's work must be identified and properly footnoted. Use quotation marks to identify all sources of wording that are not yours. Identify sources of ideas with appropriate footnoting. Plagiarism receives an F in the subject, the instructor is required to forward the case to the Committee on Discipline. See <a href="http://cmsw.mit.edu/writing-and-communication-center/avoiding-plagiarism/">http://cmsw.mit.edu/writing-and-communication-center/avoiding-plagiarism/</a> for more information.

The WCC at MIT (**Writing and Communication Center**) offers *free* one-on-one professional advice from communication experts with advanced degrees and publishing experience. The WCC can help you further develop your oral communication skills and learn about all types of academic and professional writing. You can learn more about WCC consultations at <a href="http://cmsw.mit.edu/writing-and-communication-center">http://cmsw.mit.edu/writing-and-communication-center</a> and register with the online scheduler to make remote appointments through https://mit.mywconline.com. Please note that the WCC hours are offered Monday-Friday, 9:00 a.m.-6:00 p.m., and fill up fast.

### **Syllabus** (Version 1 - February 15, 2021)

Week	Topics, Readings, Assignments
<b>Week 1</b> February 16	Rethinking the Museum, Introduction  In-class Activity: Memorable museum experience
February 18	The Museum as Holistic Experience: Lascaux IV  Readings:  2040: Hello and Welcome to the Future by Adam Rozan, American Alliance of Museums, Museum,  Magazine 2040, November/December, 2017;  Nina Simon: The Participatory Museum, 2010 Online Edition - Introduction and related TedTalk  G: At the Foot of the Hill, pp. 128-139
Week 2 February 23	Collecting & Curating: For Whom by Whom?  Readings: "What is a Museum?", in E. & A. Alexander, Museums in Motion, 2nd ed. 2008, pp. 1-19  G: Stephanie Bowry: "Before Museums: The Curiosity Cabinet as Metamorphe," in: Museological Review 18 (2014), pp. 30-43  Assignment: Evaluate and present an online museum of your choice (more details in assignments)
February 25	Guest Speaker: Kristen Gresh, Museum of Fine Arts, Photography Curator  Readings: "Enhanced Critical Curation", in Digital_Humanities, pp. 32-34  plus one additional reading by Kristen Gresh (see LMOD)  Assignment: Curate an (online) exhibition with five personal objects that tell a story

Week	Topics, Readings, Assignments
Week 3 March 2	Enhancing the Visitor Experience - New technologies: AR/VR, 360 degrees Discussion of Final projects Readings: B. Joseph Pine II, James H. Gilmore: "The Experience Economy," in: G. Anderson ed., Reinventing the Museum, 2nd ed. Lanham 2012, pp. 163-169 D. Dorn et al., "First-Time And Repeat Visitors: What Makes A Satisfying Museum Experience?," Conference Paper, 2014, pp. 14-20 Assignment: Develop ideas and concepts for final projects.
Week 3 March 4	Guest Speaker: Tamiko Thiel, AR/VR Artist  Readings: Thiel, Tamiko. "Cyber-Animism and Augmented Dreams," in: Leonardo Electronic Almanac (LEA), 2011; Thiel, Tamiko. "Where Stones Can Speak: Dramatic Encounters in Interactive 3D Virtual Reality," chapter in the book Third Person: Authoring and Exploring Vast Narratives, ed. Pat Harrigan & Noah Wadrup-Fruin, MIT Press, Cambridge, MA, USA.
Week 4 March 9	Student Holiday
March 11	Final Project Selection & GroupFormation The Museum as Space: Architectural, Social, Public, Physical/Digital Lit: Thomas, Nicholas. The Return of Curiosity: What Museums Are Good for in the 21st Century. London: Reaktion, 2016. Assignment: Digital curation via scraping and APIs; first presentation of concepts for final projects.
Week 5 March16	Collecting & Curating: For Whom by Whom? Open Access, APIs  Lit. Salgado, M. (2009). Designing for an open museum: an exploration of content creation and sharing through interactive pieces. Helsinki: University of Art and Design Helsinki; Evans, Catherine. "The Impact of the Participatory, Visitor-Centered Model on Curatorial Practice." Journal of Museum Education 39, no. 2 (June 12, 2014): 152–61; Lubar, Steven. Inside the Lost Museum, Curating, Past and Present. Cambridge, MA: Harvard University Press, 2017.  Assignment: Present results of API access/scraping, explore virtual & augment technologies
March 18	The Museum as Experience: Digital Strategies Guest Speaker: Christopher Atkins, Museum of Fine Arts, Director of the Center for Netherlandish Art Readings: TBA
Week 6 March 23	No Class - Student Holiday
March 25	The Museum as Space: Architectural, Social, Public, Physical/Digital Readings: Thomas, Nicholas. The Return of Curiosity: What Museums Are Good for in the 21st Century. London: Reaktion, 2016. Charitonos, Koula, Canan Blake, Eileen Scanlon, and Ann Jones. "Museum Learning via Social and Mobile Technologies: (How) Can Online Interactions Enhance the Visitor Experience?" British Journal of Educational Technology 43, no. 5 (September 1, 2012): 802– 19; G: Levent, Nina and Alvaro Pascual-Leone, eds. The Multisensory Museum: Cross-Disciplinary Perspectives on Touch, Sound, Smell, Memory, and Space. Washington, D.C.: Rowman & Littlefield, 2014.  Assignment: Presentation and discussion of revised final project, detailed review of concepts,
Week 7 March 30	pesigning Experiences: Approaches of Design Research and Design Thinking Readings: Dernie, D. (2006). Exhibition Design. London: Laurence King Publishing; Whitelaw, M. (2015). Generous Interfaces for Digital Cultural Collections. Digital Humanities Quarterly, 9(1).  Assignment: Project work and feedback session

Week	Topics, Readings, Assignments
April 1	Updates on Final Projects
<b>Week 8</b> April 6	Museums and Storytelling Readings: Bruce Wyman Scott Smith Daniel Meyers Michael Godfrey, Digital Storytelling in Museums: Observations and Best Practices, CURATOR, October 2011 Assignment: Revision of project concepts, designs and technologies
April 8	Guest Speaker: Amelia Wong, The Getty Foundation, Los Angeles (via Skype)  Readings: TBA
Week 9 April 13	AR/VR - New Approaches to Exhibition Design and Visitor Experience Guest Speaker: Brendan Ciecko Readings: TBA
April 15	Readings: Stan Ruecker et al., Visual Interface Design for Digital Cultural Heritage: A Guide to Rich-Prospect Browsing (New York, Routledge, 2016) Getraut Koch, Augmented Realities, in: Digitization: Theories and Concepts for Empirical Cultural Research (New York, Routledge, 2016, 230-247) Assignment: Experimentation with visual display of museum artefacts; presentation and discussion of final project updates
Week 10 April 20	No classes - Student Holiday
April 22	Smart Heritage: Al and the Museum  Readings: Excerpts from Ellen Lupton, Design Is Storytelling (New York, Cooper Hewitt, Smithsonian  Design Museum, 2017), Gretchen Jennings, Time to Listen, CURATOR 46/4, October 2003, pp.  371-384; Lauren Styx, How are museums using Artificial Intelligence, and is Al the future of museums? Museum Next, March 28, 2019, <a href="https://www.museumnext.com/article/artificial-intelligence-and-the-future-of-museums/">https://www.museumnext.com/article/artificial-intelligence-and-the-future-of-museums/</a> ; Ahmed Elgamma et al. The Shape of Art History in the  Eyes of the Machine, conference paper, 32nd AAAI conference on Artificial Intelligence (New Orleans, 2018)  Lisa Gitelman (ed.), "Raw Data" Is an Oxymoron, Introduction (Cambridge, Mass, MIT-Press, 2013, 1-14)  Assignment: Explore Harvard's Metalab Museum Al Projects
Week 11 April 27	Museum and the Other: Multiculturalism  Lit. Kevin Coffee, Cultural inclusion, exclusion and the formative roles of museums, Museum  Management and Curatorship, Volume 23, 2008 - Issue 3  Assignment: Review of design concepts and project deliverables
April 29	Project Reviews
Week 12 May 4	Final Project - Presentation of updated versions
May 6	cont.
Week 13 May 11	Final Project - Presentation of beta-versions  Assignment: Discussion and revision of final projects, review with museum counterparts
May 13	cont.
Week 14 May18	Final Project Presentations
May 20	Final Project Presentations Design Papers due