

## **Maryland Institute College of Art**

Animation department

Advanced 2 D class

**guest Scientist:** Robin Corbet *UMBC/NASA GSFC*

**Teacher:** Laurence Arcadias

[larcadias@mica.edu](mailto:larcadias@mica.edu)

### **Project: Animation and Science: “Animating Fermi”**

*A collaboration between Mica animation students and scientists from the Fermi gamma-ray space telescope at NASA Goddard Space Flight Center.*

### **Objective:**

To produce a short animation piece that will illustrate astrophysics concepts associated with the Fermi satellite:

### **Example of Projects**

- Binary stars
- Fermi bubbles
- Fermi-- dark matter
- Sun flare with Fermi
- Space debris - “satellite junk”
- Fermi orbiting around the earth

You will meet scientists from NASA's Goddard Space Flight Center and work on one of the projects associated with the Fermi Satellite. The class will be divided in 5 or 6 groups, each group developing a specific project under the guidance of a scientist. You will be challenged to use your creative vision within a scientific integrity. Trip to Goddard Space Flight Center and discussion with scientists will be part of the project.

### **Production schedule:**

5 weeks to deliver a 1 to 3 minutes animated piece.

### **way of communication:**

Students will create a tumblr page and post their latest state of their project as a way of communication with scientists.

**project outcome:**

The final animations will be presented to a panel of scientists at NASA Goddard Space Flight Center. Successful animations will be screened at scientific conferences and festivals.

**class outcome:**

- you will practise the ability to communicate and develop a common vocabulary between artists and scientists.
- you will learn how to create and deliver a project with a sense of scientific integrity.

**Links for inspiration:**

- <http://www.science-television.com/fr/film/665/qu-est-ce-qu-un-trou-noir/>
- <http://danceyourphd.com>
- Example of Schrodinger cat: <http://youtu.be/IOYyCHGWJq4>
- Fermi bubble video for possible display: <http://www.youtube.com/watch?v=Zni8KNWqO0Y>

**Students will be asked to come to class on feb 13th with some Basic Astronomy Background:**

COSMOS: A SPACETIME ODYSSEY: <http://www.cosmosontv.com>

**Schedule for NASA project**

<b>Feb 13th</b>	Robin Corbet + other scientist come to MICA and explain a few Fermi concepts with examples of interpretation.	Watch Basic Astronomy Background videos
<b>feb 20th</b>	In class, students push their concept and storyboard ideas.	work on concept and storyboard
<b>feb 27th</b>	students visit Goddard Space Flight Center and submit their storyboards to a panel of scientists. About 5 projects are selected.	develop animation
<b>March</b>	in class: students work in group	develop animation

<b>6,13,27</b>		
<b>Apr 3rd</b>	students go to NASA and present their final projects to scientists.	successful animation will be shown at Goddard space center and in scientists projects

- School name: **Maryland Institute College of Art**
- Program/Department: **Animation department**
- Faculty name: **Laurence Arcadias (MICA) & Robin Corbet (UMBC/NASA GFSC)**
- Project name: **Animating Fermi**
- Student(s) name:

Tynesha Foreman  
 Sarah Bushin  
 Isaac Ewart  
 Natasha Nayo  
 Shari Pryce  
 Nicky St. Onge  
 Tara Saldajeno  
 LeJea Williams  
 Lisa Deng  
 Dana Zhang  
 Jordan Jackson  
 Eunbi Choi  
 Jihye Jung  
 Sydney Citrone  
 Marc De Leon

- Project sponsored by MICA's Office of Community Engagement

**vimeo link to the projects:**

<https://vimeo.com/94023644>

**documentary of the experience:**

<https://vimeo.com/91361066>