

USC Viterbi  
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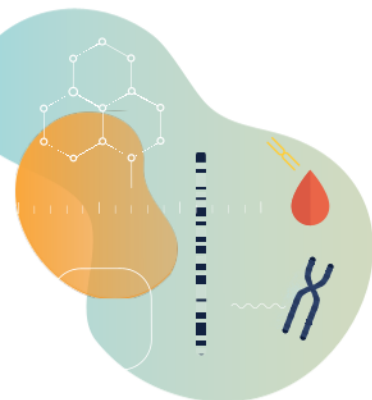
To learn more about  
**USC's Department of  
Biomedical Engineering**  
visit **bme.usc.edu**.

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**USC Viterbi**  
School of Engineering  
*Department of Biomedical Engineering*

## USC Viterbi Department of Biomedical Engineering

### WORLD-CLASS FACULTY

**17**

**Tenured & Tenure-  
Track Faculty**

**12**

**AIMBE Fellows**

**9**

**IEEE Fellows**

**3**

**BMES Fellows**

**2**

**NAI Fellows**

**5**

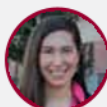
**NSF CAREER  
Award Recipients**

### 3 NEW TENURED & TENURE-TRACK FACULTY SINCE 2015



**Jenny Treweek**

WiSE Gabilan Assistant Professor  
*neuroscience*



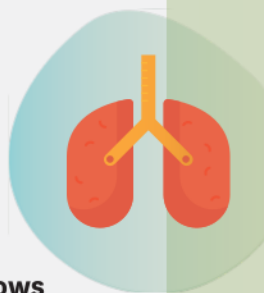
**Christina Zavaleta**

WiSE Gabilan Assistant Professor  
*diagnostics*



**Keyue Shen**

Assistant Professor  
*cell signaling*



# Research & Innovation

## BRAIN MAPPING

Professors **Ellis Meng**, **Ted Berger** and **Dong Song**, along with postdoc **Kee Scholten** and students **Huijing Xu** and **Ahuva Weltman Hirschberg**, have developed thin, flexible polymer-based materials for use in microelectrode arrays that record activity more deeply in the brain and with more specific placement than ever before.

## CANCER THERAPY

Until now, it remained a mystery why tumors have different reactions to the exact same therapy. But a new study by Professor **Stacey Finley** and students **Thomas Gaddy**, **Qianhui Wu** and **Alyssa Arnheim** finds that tumor growth properties can influence response to cancer drugs.

## MICHELSON CENTER

The lead faculty on these studies, Professors **Meng** and **Finley**, are members of the new **USC Michelson Center for Convergent Bioscience**. At the Michelson Center, researchers are working to solve some of the greatest intractable problems of the 21st century in biomedical science, including a fundamentally new understanding of the cell and new approaches for cancer, neurological and cardiovascular disease.

# Exceptional Students



## STUDENT SPOTLIGHT

**Nina Singh** (BS '19) is a two-time Astronaut Scholarship winner. She is currently developing a model to better understand cilia movement in order to remediate damaged or dysfunctional cilia. She is also working on an app to help cancer patients manage their medications and volunteers at the Violence Intervention Program.

## ASBME

**2018 BMES Student Chapter Outstanding Achievement Award**

**2018 Best Student Organization at USC Viterbi Makeathon** – in 3 years, there have been 185 participants

