

Biological Anthropology

- Amy Non
- Margaret Schoeninger
- Shirley Strum
- Katerina Semendeferi
- Marni LaFleur

Amy Non, PhD, MPH

Assistant Professor of Anthropology

Just arrived at UCSD (Fall 2015)

Courses commonly offered:

- Biology of Inequality
- Human Evolutionary Biology
- Biology and Culture of Race
- Genetic Anthropology Lab Methods
- Intro to Biological Anthropology



Dr. Non's Research Interests

- Genetic Anthropology
- Epigenetics (as mechanism for biological embedding of stress)
- Developmental origins of health and disease
- Racial disparities in complex disease
- Stress among children of Hispanic immigrants

Non Lab





CHICOS

Children of Hispanic
Immigrants Collaborating
to Overcome Stress

<http://www.chicosnashville.org/>

Study Aims:

- To investigate sources of stress among children of Mexican immigrants
- Explore how these stressors may become biologically embedded to predispose children to higher risk of cardiometabolic disease



Research Opportunities for Undergraduates



How do you benefit?

- Invaluable research experience
- Undergraduate honors thesis
- Close relationships with lab mates and research mentor
- Figure out a potential career path

What can you do as a lab assistant?

- Extract DNA from cheek swabs, saliva
- PCR – amplify DNA
- Assay DNA methylation
- Spanish language interviews
- Collect height, weight, waist circumference, hair, BP, cheek swabs, saliva
- Data Analysis

My Graduate Students

Elizabeth Clausing

- 1st year Anthropology, UCSD
- Research Interests:
 - Population genetics, disease and public health, epigenetics, and genetic epidemiology





Margaret J. Schoeninger

Regular Faculty

Professor of Biological Anthropology

Year 15 at UCSD

Courses:

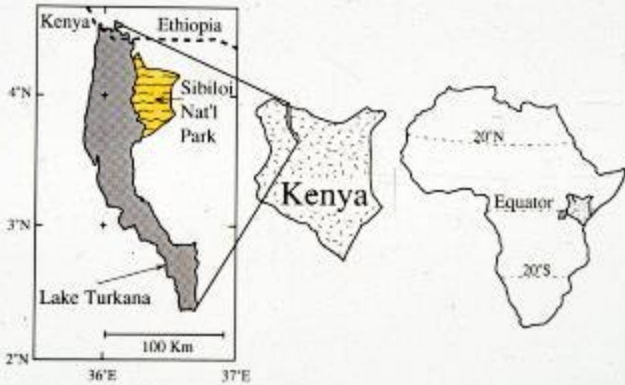
Evolution of Human Diet

The Human Machine: The Skeleton Within

Stable Isotopes in Diet and Ecology

Bioethics

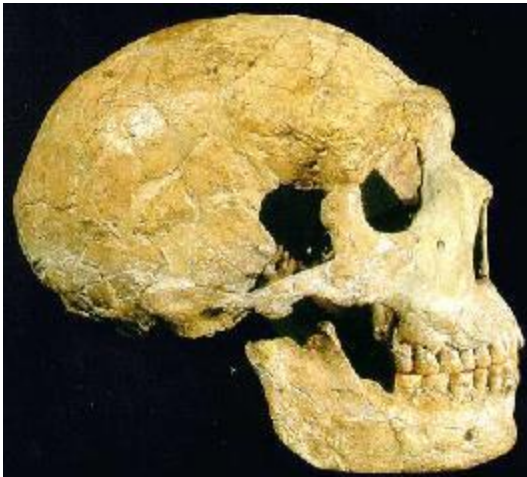
What does being in a research university allow?



Collecting modern animal bones in East Africa to establish a baseline of bone composition



Use that baseline to ask question Neandertals in Israel 70,000 years ago

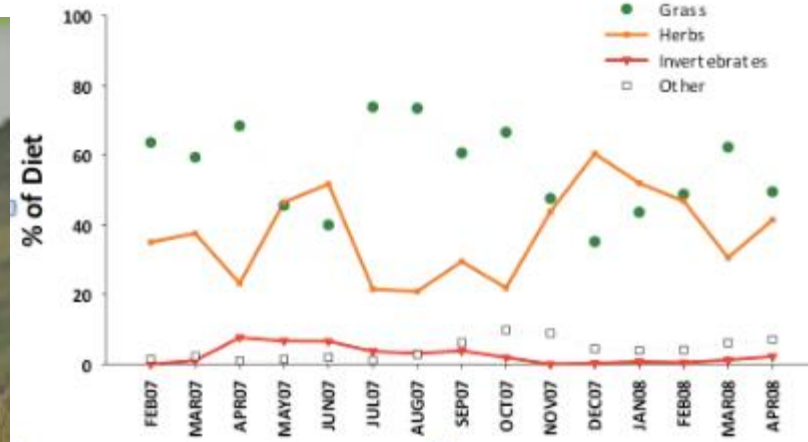


And, Native Americans in Georgia in the 1500's

Offer to interested, outstanding undergraduates

This year: Isabel Hermismeyer working in lab

Preparing the grass and herbs eaten by Ethiopian Gelada Baboons



For compositional analysis



**To help characterize
Australopithecine diets**

The PaleoDiet Laboratory at UCSD: a past example

Undergraduate



Postdoctoral Fellow

Graduate Students

The PaleoDiet Laboratory Today:

Newly minted Ph.D. Dr. Andrew Somerville: Paleoclimate in the Prehistoric US southwest and northwestern Mexico, effects of climate change on prehistoric societies

**Melanie Beasley, Senior Graduate Student
Paleoecology and climate in East Africa,
bioarchaeology of prehistoric CA, forensics**



**Kristen Snodgrass, ABD, Diets of Archaeological
Muslims, Christians, and Jews in Spain**



**Samantha Strueli, MA student
Chalcatzingo, a gateway community in prehistoric
Mexico. Identifying migrants from other regions**

**Christine Lambert, MA student
Colonial Impact on human diet in Madagascar
CA archaeology, Cultural Resource Management (CRM)**



Shirley Strum, Professor

Shirley C. Strum is a professor of anthropology at UC San Diego and director of the Uaso Ngiro Baboon Project in Kenya. She received her Ph.D. from the University of California Berkeley. Dr. Strum currently divides her time between Kenya and San Diego.



Uaso Ngiro Baboon Project



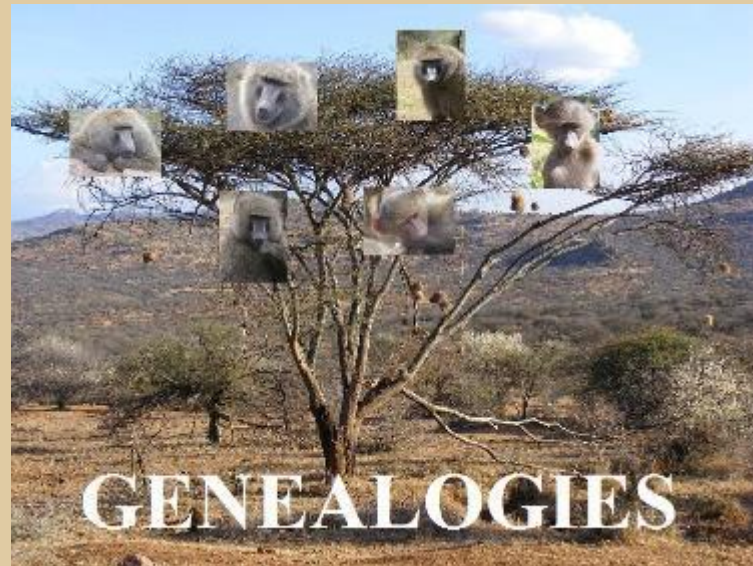
The Uaso Ngiro Baboon Project is one of the five longest running research projects on wild primates, now in its 43rd year. The Kenya team consists of Kenyan para-ecologists and para-behaviorists and international graduate students and interns. UNBP's motto is "Science to understand 'our' origins; Conservation to guarantee 'our' future."

Dr. Strum was one of the first to uncover social complexity in wild primates, an important impetus for reconsidering the issue of primate mind in the late 1970's.

Current Projects: 2 Tracks

Track 1

The first set of studies explores how socio-ecological complexity influences individual behaviors and how group level phenomena emerge from individual action (troop movement, troop fission, troop fusion, addition of new food items to the diet). These baboon data offer a critique of assumptions about evolutionary arguments and reset the starting point for human evolution.



Track 2

The second track focuses on conservation using the best possible science to understand the dynamics of modern biodiversity problems as well as to create innovative solutions (crop raiding, translocation, community based conservation, ecotourism).

She recently was the international expert called upon to evaluate and recommend solutions to the human-baboon conflict in Cape Province, South Africa. She has completed 10 year study of the conditions that contribute to the invasion of *Opuntia stricta* in the dry savanna in Kenya. Dr. Strum has also been active in public education through a large number of award winning nature documentaries.





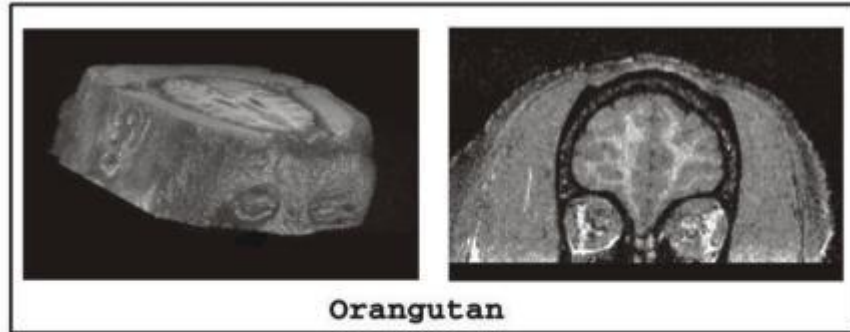
Katerina Semendeferi, Professor

1994 PhD in Biological Anthropology & Neurosciences, U Iowa
1995-97 Postdoc in Cognitive Neuroscience/Neurology, U Iowa
1997-present UCSD

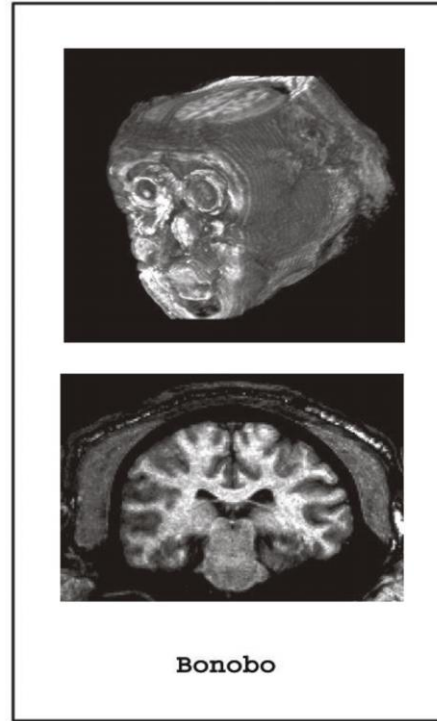
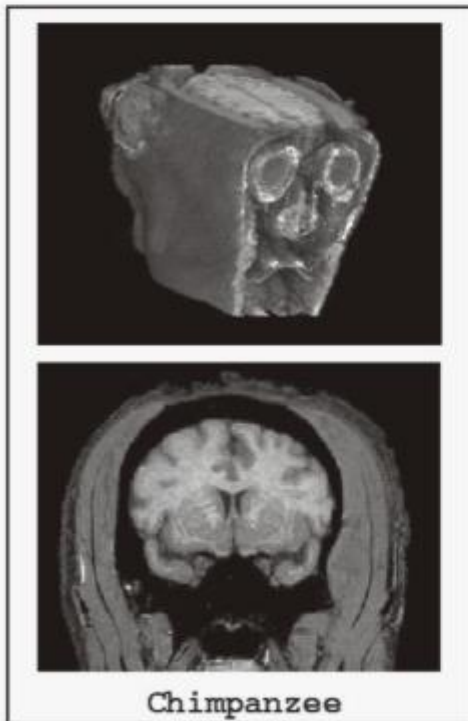
ANTH 196A-C Honors Studies in Anthropology (Director of Undergraduate Studies)
ANBI 109 Brain Mind Workshop
ANBI 112 Methods in Human Comparative Neuroscience
ANBI 140 The Evolution of the Human Brain
ANBI 175 Modeling the Behavior of our Early Ancestors



What changed in the hominid brain during the Plio-Pleistocene after the split from LCA?



First structural Magnetic Resonance Imaging (MRI) of great apes (1994)



Laboratory for Human Comparative Neuroanatomy

Evolution and Development of Neural Systems involved in Cognition and Emotions (**Non invasive Studies**)



Baboons



Gibbons



Orangutans



Gorillas



Chimpanzees



Bonobos

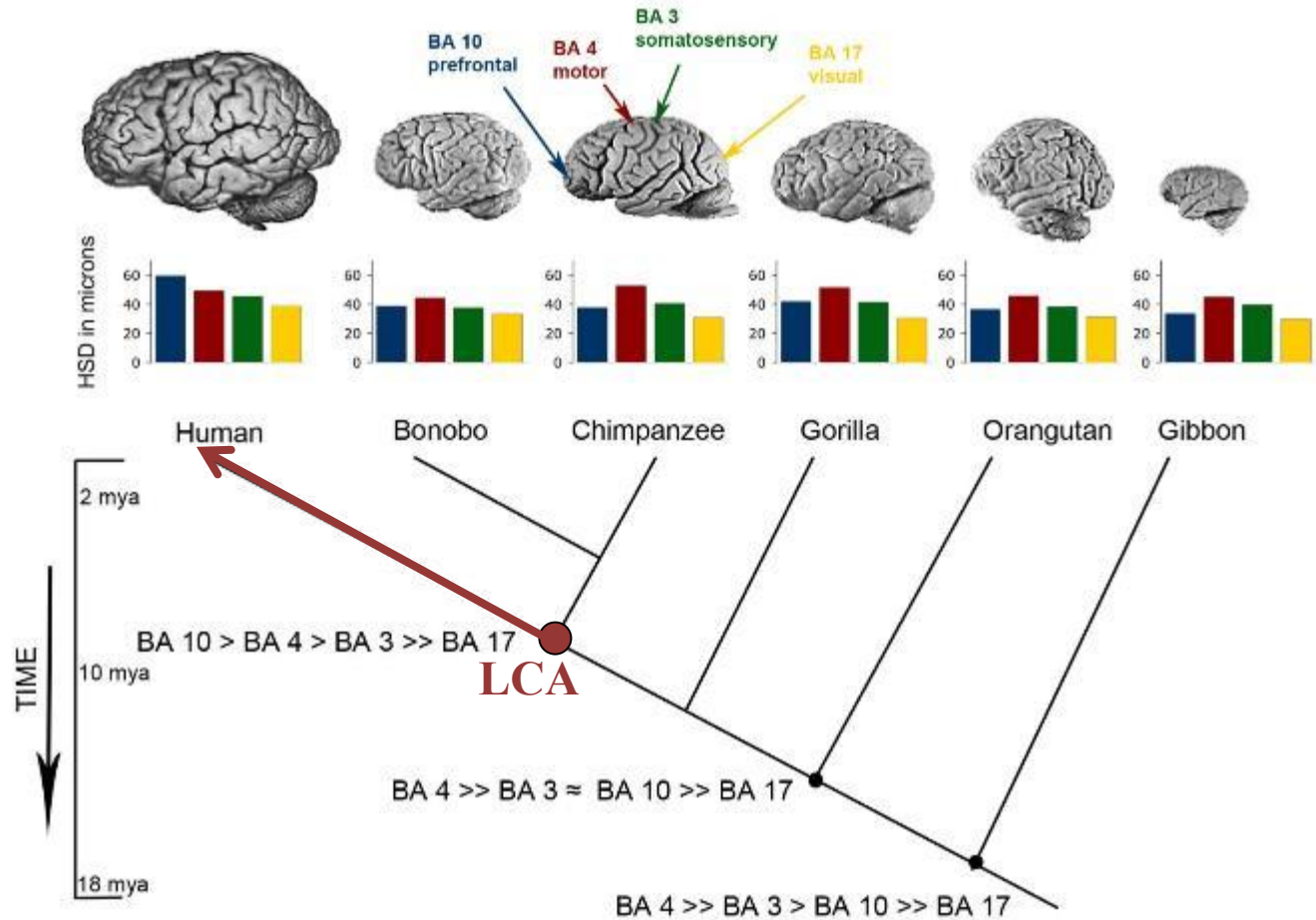
Noninvasive brain studies:

- Gross Anatomy**
- Histology/Morphometry**
- Cellular Morphology**
- Molecular Neuroscience**

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Prefrontal cortex changes after LCA



Opportunities for Undergraduate Research and Mentoring

Past and Ongoing:

- Laboratory volunteer
- Paid research assistantships, funded through Federal Grant and UC wide competitions
- Marshall College Mentoring Program
- ANTH 199 Independent study
- Faculty Mentor Program
- UCSD annual research conference

Also available for:

- McNair Program
- UC Scholars – summer program



Kim and Val



Hailee and Derek

Graduate Students - present



[Kari Hanson](#)

k1hanson@ucsd.edu



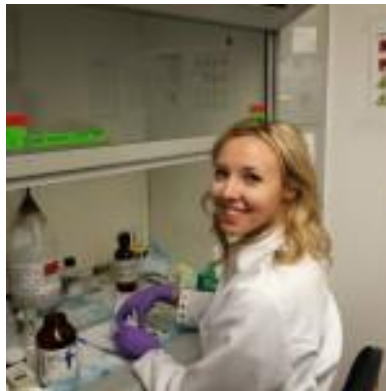
[Branka Hrvoj](#)

bhrvojmi@ucsd.edu



[Caroline Horton](#)

cfhorton@ucsd.edu



[Linnea Wilder](#)

llwilder@ucsd.edu

Brittany Moore

b6moore@ucsd.edu

Some former undergraduates

Clelia Ahrens-Barbeau
BA Biological Anthropology



William Pandori
BA in BioAnthro &
Molecular Bio

Chelsea Brown
BA in BioAnthro &
Neurosciences



Alleah Wattenberg
BA in Cognitive Science



MARNI LAFLEUR, PH.D.

ADJUNCT FACULTY, 2ND YEAR UCSD

MARNI LAFLEUR

WHAT I DO

- Primatologist
- Teach or research some of the year, field work in Madagascar the rest
- Lemur Love and the Lemur Rescue Center



MARNI LAFLEUR

WHAT I AM INTERESTED IN

- Lemurs
- Animals more generally
- Issues of social justice and human equality



MARNI LAFLEUR

WHAT I TEACH

In general

- Biological Anthropology
- Biology

This term

- ANTH 2: Human Origins
- ANBI 116: Primate Reproduction

Winter 2016

- ANTH 102: Humans are Cultural Primates
- ANBI 111: Advanced Principles of Human Evolution

Spring 2016

- ANBI 133: Planet of the Apes, Evolution and Ecology of Great Apes
- ANBI 145: Bioarcheology

MARNI LAFLEUR

WHAT I CAN OFFER YOU

- Not permanent at UCSD, but I am here now!
- Advice and perspective on academics
- Expertise as former long-time and non-traditional student
- All things primate!



Eulemur rubriventer
supports gender equality



ANTHROPOLOGY OPPORTUNITIES

- Kathy Creely-The Library
- Samantha Streuli-Undergrad/Grad Mentorship Program
- Isabel Hermsmeyer-Anthropology Club



Kathy Creely
kcreely@ucsd.edu
858-534-2029

LIBRARIAN for:

- Anthropology
- Archaeology
- Linguistics
- Melanesian Studies

Has worked at UCSD
since MCMLXXXIII

GOT QUESTIONS?

ASK A LIBRARIAN!

library.ucsd.edu/help/ask-a-librarian

Text

Chat

Email

Call

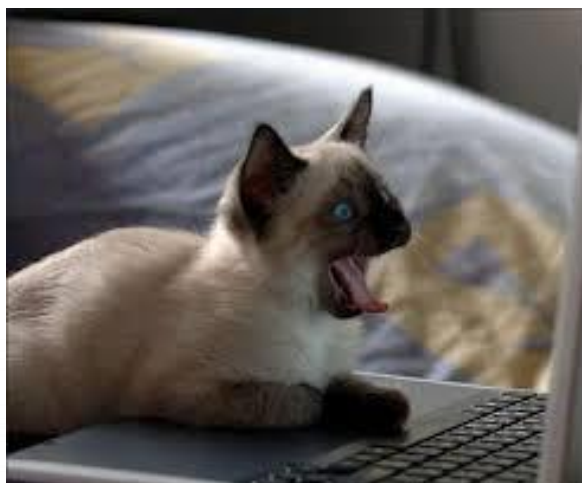
Drop by

GOT MORE QUESTIONS?

Check out the

LIBRARY GUIDE FOR ANTHROPOLOGY

ucsd.libguides.com/anthropology



NEED MORE HELP
FINDING STUFF AT THE LIBRARY?
TRY A LIBRARY RESEARCH CONSULTATION!

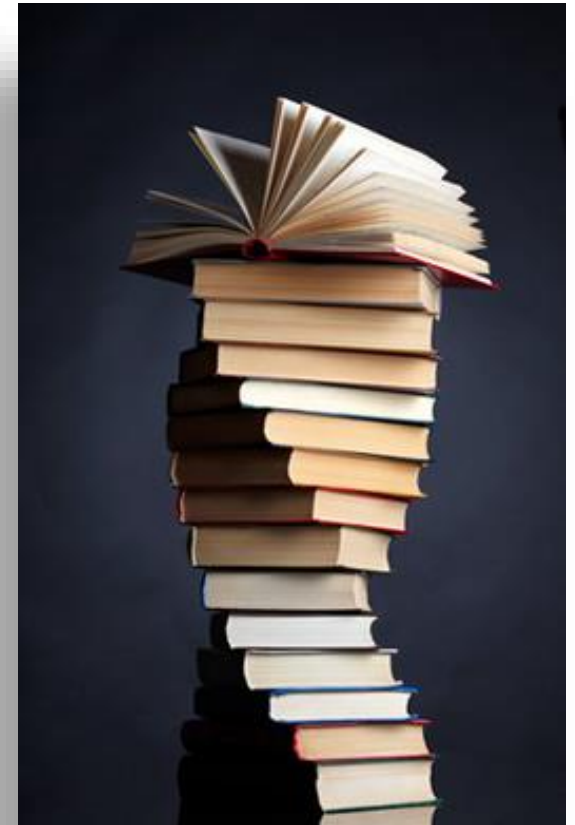


kcreely@ucsd.edu

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LEARN TO:

- Navigate the Library website
- Find background info
- Find journal articles, using specialized databases
- Find books/ebooks, films, primary sources, and more



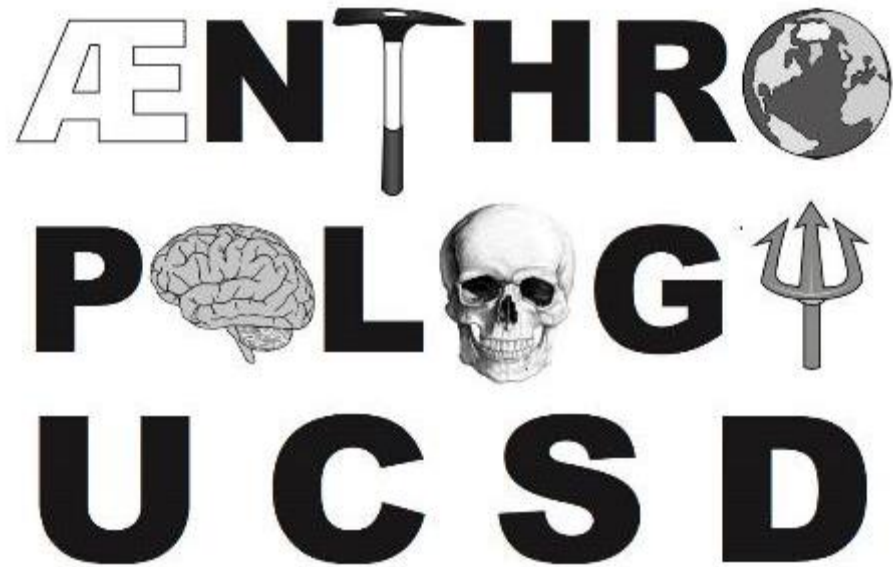
HOPE TO SEE YOU IN THE LIBRARY SOON!

Anthropology Mentor-Protégé Program

University of California, San Diego
Department of Anthropology

Anthropology Mentor-Protégé Program

- UCSD graduate students in anthropology:
 - Linguistic
 - Archaeology
 - Psychological
 - Sociocultural
 - Biological



Program Overview

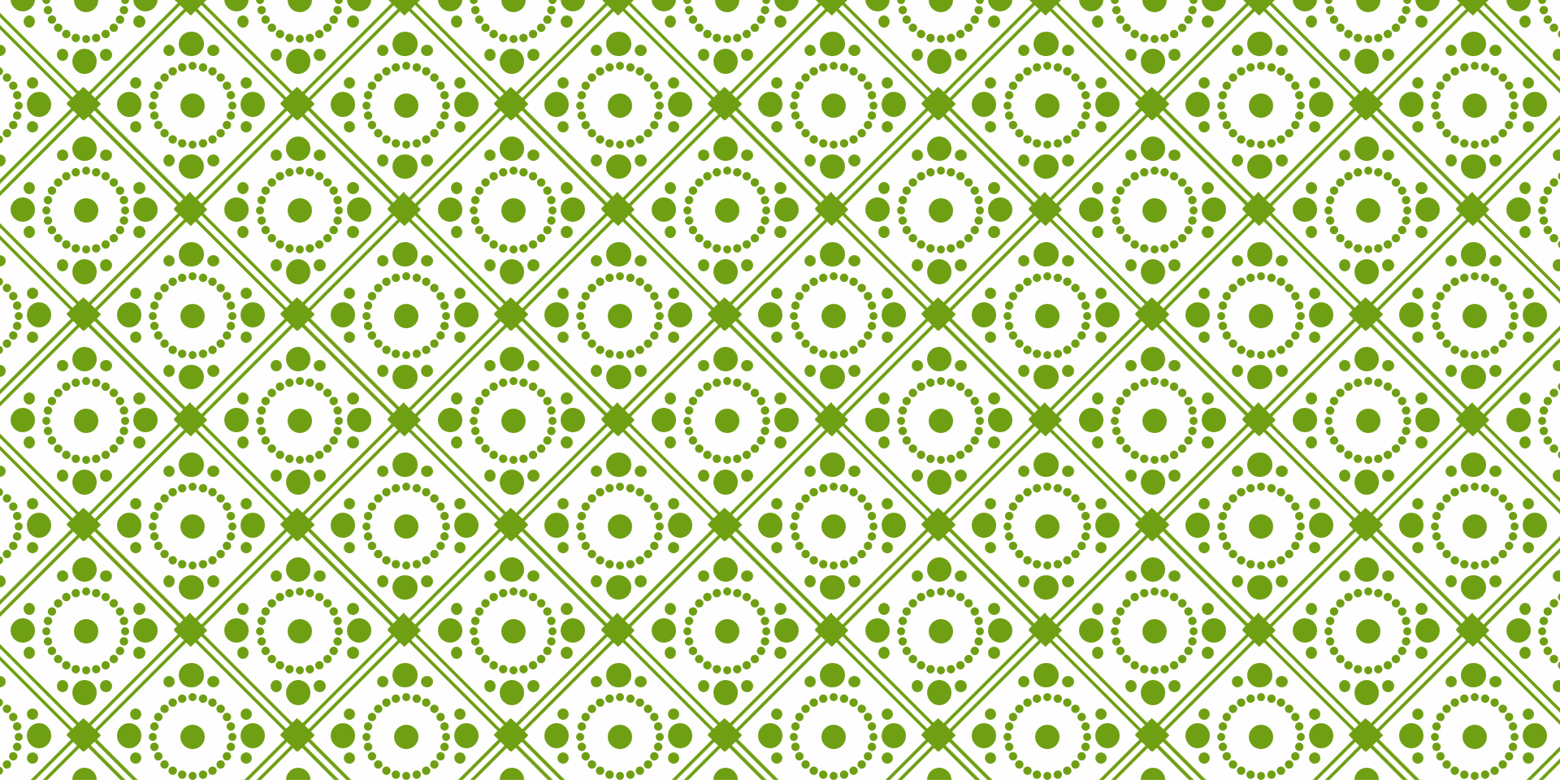
- What is it?
 - Graduate student mentors are paired with undergraduate protégés to offer guidance
 - By subfield or general academic interests
- Who is it for?
 - Those who may need a little extra help
 - Those who want to pursue grad school in the future
 - Those who want a better idea of what to do with their degree
 - Any interested undergrad!

How you can benefit

- Guidance
 - Career
 - Help finding resources
 - Tailor your degree
- Help finding and developing research projects
 - Potential lab or field experience
 - Potential experience presenting research
- Help preparing for/applying to grad school
- Help developing academic CV
- Help understanding course concepts
- Get involved in your department!

How to get involved

- Applications!
- Email our program coordinator Taciana Pontes:
tpontes@ucsd.edu
- First come first serve



Anthropology Club 2015-2016

Board officers

President-Isabel Hermsmeyer



Vice President- Grace O'Connell



Treasurer- Joseph Guerrero



Events Coordinator- Janette Lee



Tentative Plans

Thesis Program

On Campus Meetings

Talks From Professionals

FIELD TRIPS!

- Museum of Man, San Diego Archaeological Center, Natural History Museum, San Diego Zoo

Thank you for listening!

If you have any questions on how to be a UCSD anthropologist...

Explore more at <http://anthro.ucsd.edu/>

Email: anthroadvising@ucsd.edu

Phone #: (858)534-4145

Social Sciences Building, Room 210

