

V. Meeting
Northeastern Evolutionary
Primatologists
November 8-9, 2019

UMASS
AMHERST

LOCATION: Old Chapel, UMass, Amherst, MA

PARKING: on campus at metered parking spaces (@ \$1.50/hour – 7 a.m. to 7 p.m. on Friday and free on Saturday), at the Campus Center Parking Garage (@1.75/hour) (both Friday and Saturday), or any surface parking lot (e.g. Red Lot 62) can be freely used on Saturday; for more info on parking and directions see pages 7 and 8 of the program or <http://neep2019.mystrikingly.com/>

REGISTRATION

Old Chapel	Friday, November 8, 2019	05:00-06:00 pm
	Saturday, November 9, 2019	07:45-8:25 am

- We will provide name tags, but neither a printed program nor writing pads, pens, or bags.
- To minimize the use of plastic we encourage you to bring your water bottle and a coffee mug.
- **Bring a coat**, lunch will be served outside in a heated tent.
- On-site registration available (cash only please, \$40 students and \$80 faculty)

PODIUM PRESENTATIONS

The talks are scheduled for 12 minutes for the presentation itself and 3 minutes for Q&A, total 15 minutes.

POWERPOINT PRESENTATIONS UPLOAD

Please have your PowerPoint on a jump drive ready to upload to the conference laptop Saturday during registration or lunch. If you present on the first session on Saturday, it would be of great help if you could upload Friday evening already. The computer is a Mac, the projector facilitates wide screen format; a PC will also be available.

POSTER PRESENTATIONS

Posters should be landscape in orientation with a maximum size of 48 inches wide by 36 inches tall. Please remain within these limits due to space constraints. Poster set-up is on Saturday morning and during the Saturday breaks.

FOOD AND DRINKS

The conference fee includes a reception after the keynote speaker talk on Friday, and on Saturday a light breakfast, coffee breaks, lunch, and snacks in the evening. The Friday evening reception and the Saturday poster session will have a cash bar.

GENERAL MEETING

We will have a NEEP General Meeting on Saturday after the afternoon coffee break and before the poster session for a maximum of 1 hour.

ACKNOWLEDGMENTS

Support for the conference is generously provided by the UMass Anthropology Department, UMass Natural History Collections, UMass Institute for Social Science Research, UMass College of Social and Behavioral Sciences, UMass College of Natural Sciences; Wiley generously supported the student prizes.

CONFERENCE ORGANIZATION

Andrea Baden, Carola Borries, Alex Decasien, Jason Kamilar, Andreas Koenig, and Sue Margulis. Local organizers, coordinators, and hosts: Jason Kamilar and Courtney Babbitt. We thank our volunteers who made the meeting possible.

PROGRAM COMMITTEE

Carola Borries, Marina Cords, Alex DeCasien, Jacob Feder, Jason Kamilar, Andreas Koenig, Sue Margulis, and Larissa Swedell.

Wireless Guest Account Access

In the WiFi settings select the UMASS network, open web browser (Safari or Firefox recommended), type in: <http://www.umass.edu>, a page indicating 'unsecure connection' (click: 'more details' or 'advanced' and click the link) OR the UMass wireless login page appears, enter Guest ID: 75293814 and Password: 65159172

Meeting Program, NEEP @ UMass Amherst, Nov 8-9, 2019

Friday November 8, 2019 P.M.

- 05:00** **Registration begins**
06:00-06:05 **Welcome**
06:05-07:05 **Invited speaker**
 Meeting the Last Common Ancestor: fieldwork, relatives, and modeling approaches
 Ashley S. Hammond, Biological Anthropology, Richard Gilder Graduate School, American
 Museum of Natural History
07:05-09:00 **Reception: Snacks, Cash Bar**

Saturday November 9, 2019

- 7:45-8:25** **Registration and light breakfast**
08:25-08:30 **Welcome**

A.M. Session 1: Ecology, Energetics, and Conservation

Chair: Andreas Koenig, Stony Brook University

- 08:30-08:45** **Exploratory analysis identifies arthropod consumption in ten lemur species using DNA metabarcoding**
 Amanda Rowe, Stony Brook University, IDPAS
 and Mariah E Donohue, Elizabeth L Clare, Rosie Drinkwater, Andreas Koenig, Zachary M
 Ridgways, Luke D Martin, Eva S Nomenjanahary, Francois Zakamanana, Lovasoa J
 Randriamanandaza, Thierry E Rakotonirina, Patricia C Wright
08:45-09:00 **Quantity and quality of orangutan seed dispersal in Gunung Palung National Park, Borneo, Indonesia**
 Andrea Blackburn, Boston University, Anthropology,
 and Ahmad Rizal, Tri Wahyu Susanto, Cheryl D. Knott
09:00-09:15 **Energy balance in wild male geladas**
 Rachel Perlman, Stony Brook University, IDPAS
 and Jacinta C. Beehner, Andreas Koenig, Amy Lu
09:15-09:30 **How does human use of the forest affect the population density of Verreaux's sifaka (*Propithecus verreauxi*)?**
 Chloe Chen-Kraus, Yale University, Anthropology
 and Njaratiana Anick Raharinoro
09:30-09:45 **Estimation of body temperature of Bornean orangutans (*Pongo pygmaeus wurmbii*) from fecal temperature measurements**
 Faye Harwell, Boston University, Anthropology
 and Rinaldi Gotama, Muhammad Syainullah, Junardi, Tatang Mitra Setia, Brodie Philp, Cheryl D.
 Knott
09:45-10:00 **Maturation of the vervet monkey infant gut microbiome**
 Lauren Petrullo, Stony Brook University, IDPAS
 and Noah Snyder-Mackler, Amy Lu
10:00-10:30 **Coffee & Tea Break**

A.M. Session 2: Conspecifics and Communication

Chair: Amy Lu, Stony Brook University

- 10:30-10:45 Energetic consequences of inter-group encounters in wild bonobos**
Stefano Lucchesi, Harvard University, Human Evolutionary Biology
and Leveda Cheng, Martin Surbeck
- 10:45-11:00 Bonobos incurred physiological challenges during intergroup encounters**
Leveda Cheng, Harvard University, Department of Human Evolutionary Biology
- 11:00-11:15 Reactive and pre-emptive spatial cohesion in a social primate**
Laura LaBarge, SUNY, University at Buffalo, Evolution, Ecology and Behavior
and Andrew Allan, Carol Berman, Susan Margulis, Russell Hill
- 11:15-11:30 Mechanisms of male-mediated maturation in wild geladas**
Jacob Feder, Stony Brook University, IDPAS
and Jacinta C. Beehner, Amy Lu
- 11:30-11:45 Sociosexual responses to the simulated presence of solitary individuals in pair bonded owl monkeys (*Aotus azarae*)**
David Wood, Yale University, Anthropology
and Alba Garcia de la Chica, Eduardo Fernandez-Duque
- 11:45-12:00 Scent marking by male woolly monkeys (*Lagothrix lagotricha poeppigii*)**
Evelyn Pain, Stony Brook University, IDPAS
and Andreas Koenig, Amy Lu, Anthony Di Fiore
- 12:00-01:00 Lunch Break**

P.M. Session 3: Evolution and Adaptation

Chair: Courtney Babbitt, UMass Amherst

- 01:00-01:15 Evidence of selection in the UCP1 gene region suggests local adaptation to cold temperatures in savanna monkeys (*Chlorocebus* spp.)**
Christian Gagnon, Boston University, Anthropology
and Hannes Svardal, Anna J. Jasinska, Nelson B. Freimer, J. Paul Grobler, Trudy R. Turner, Christopher A. Schmitt
- 01:15-01:30 Investigating cell-type specific shifts in metabolic gene expression between human and chimpanzees**
Trisha Zintel, University of Massachusetts Amherst, Molecular and Cellular Biology
and Jason Pizzollo, Courtney C. Babbitt
- 01:30-01:45 The evolution of great ape social attention and long-term social memory**
Laura Lewis, Harvard University, Human Evolutionary Biology
and Chris Krupenye, Josep Call, Fumihiro Kano
- 01:45-02:00 Evidence that developmental processes generate a line of least resistance for the evolution of the primate dentition**
Carrie Mongle, American Museum of Natural History, Division of Anthropology
and A Nesbitt, JB Smaers, FE Grine
- 02:00-02:15 Evolution of pelage coloration in a wild lemur population**
Elizabeth Tapanes, George Washington University, Anthropology
and Mitchell T. Irwin, Jason M. Kamilar, Brenda J. Bradley
- 02:15-02:45 Coffee & Tea Break**
- 02:45-03:45 General Meeting**

03:45-05:45 Poster Session
~06:00 Student awards
03:45-07:00 Snacks, Cash Bar

Poster presentations in alphabetical order (by first author's last name)

1) Will Aguado, Rutgers University, Anthropology
and Sarah A. Skubel, Erin R. Vogel

Application of plant metabolome storage technology and bioactivity assays to primate feeding ecology

2) Courtney Babbitt, UMass Amherst, Biology
and Jason Pizzollo, Trisha Zintel

Evolution of gene regulation in human and chimpanzee neural cells

3) Amber Beg, Boston University, Anthropology
and Stephanie A. Poindexter, Muhammad Ali Imron, Eva C. Garrett, K.A.I. Nekaris

Do social, ecological, and abiotic factors influence movement in a nocturnal primate?

4) Rachel Bell, University of Massachusetts, Amherst, Graduate Program in Organismic and Evolutionary Biology
and John Rowan, Jason Kamilar, Lydia Beaudrot, Kaye Reed

How do non-primate competitors affect the potential distribution of frugivorous primates?

5) Andrew Best, University of Massachusetts, Anthropology
and Jason M. Kamilar

Evolution and diversity of human eccrine sweat gland density

6) Tennyson Cooper, Boston, Anthropology
and Christian M. Gagnon, Hannes Svandal, Anna J. Jasinska, Nelson B. Freimer, J. Paul Grobler, Trudy R. Turner,
Christopher A. Schmitt

TRPM8 analysis suggests regional selection for cold sensitivity in South African vervets

7) Rebecca DeCamp, Boston University, Anthropology
and Stephanie Poindexter, Christopher Schmitt, Eva Garrett

Strepsirrhines represent a derived condition of the vomeronasal system in primates

8) Rachel Donabedian, Columbia University, Ecology, Evolution, and Environmental Biology
and Marina Cords

Factors influencing social rank acquisition in juvenile blue monkeys

9) Mady Eori & Ishrat Chowdhury^{co-first authors} Boston University, Department of Anthropology
and Erin Kane, Nancy Conklin-Brittain, Tri Wahyu Susanto, Cheryl Knott

Condensed tannins and nutritional quality of Bornean orangutan (*Pongo pygmaeus wurmbii*) foods in Gunung Palung National Park, west Kalimantan, Indonesia

10) Luke Fannin, Dartmouth College, Anthropology
and Jake Arft-Guatelli, Debbie Guatelli-Steinberg, Noah T. Dunham, Pam Cunneyworth, W. Scott McGraw

Testing associations between diet and premolar size in four African colobines

11) Holly Fuong, Columbia University; NYCEP, Ecology, Evolution, and Environmental Biology and Marina Cords

Blue monkeys do not respond to conspecific and heterospecific alarm calls according to caller relevance

12) Gianna Grob, Boston University, Biology

and Christian M. Gagnon, Hannes Svartal, Anna J. Jasinska, Nelson B. Freimer, J. Paul Grobler, Trudy R. Turner, Christopher A. Schmitt

The evolutionary genomics of the PPARG gene in South African vervet monkeys (*Chlorocebus pygerythrus*)

13) Alexandra Haley & Erin Guntrum ^{co-first authors}, Canisius College, Animal Behavior, Ecology and Conservation and Sue Margulis

Characterization of cycling patterns in a maturing hoolock gibbon (*Hoolock hoolock*)

14) Megan Henriquez, The Graduate Center, CUNY; NYCEP, Anthropology

and Dawn Zimmerman, Carlos Sanchez, Suzan Murray, Larissa Swedell

Improved estimates of home range and variable sleeping site use in hamadryas baboons (*Papio hamadryas*)

15) Amanda Johnston, Columbia University, Ecology, Evolution, and Environmental Biology

and Rebecca Chancellor, Aaron Rundus

Effects of positive reinforcement training on chimpanzee cortisol concentration

16) Caroline Jones, University of Georgia, Psychology

and Dorothy Fragaszy

Socioecology of zoologically-housed western lowland gorillas (*Gorilla gorilla gorilla*): measuring social spacing and the introduction of an artificial termite mound

17) Bryanna Malbouf, Boston University, Anthropology

and Erin E. Kane, Lara S. Durgavich, Cheryl D. Knott

Noninvasively monitoring orangutan health status: determining urine concentrations

18) Megan Miller & Caeley Robinson ^{co-first authors}, Canisius College, Animal Behavior, Ecology, and Conservation and Sue Margulis

Behavior through time: activity differences of young zoo-housed gorillas as they age

19) Catherine Miller, Dartmouth College, Ecology, Evolution, Ecosystems, and Society

and Miller, C., Fabian, K., Hill, A.C., McNutt, E., Musiba, C., DeSilva, J.

Rediscovery of the A footprint trackway in Laetoli, Tanzania

20) Dominique Raboin, Rutgers University, Evolutionary Anthropology

and Andrea Baden, Jessica Rothman

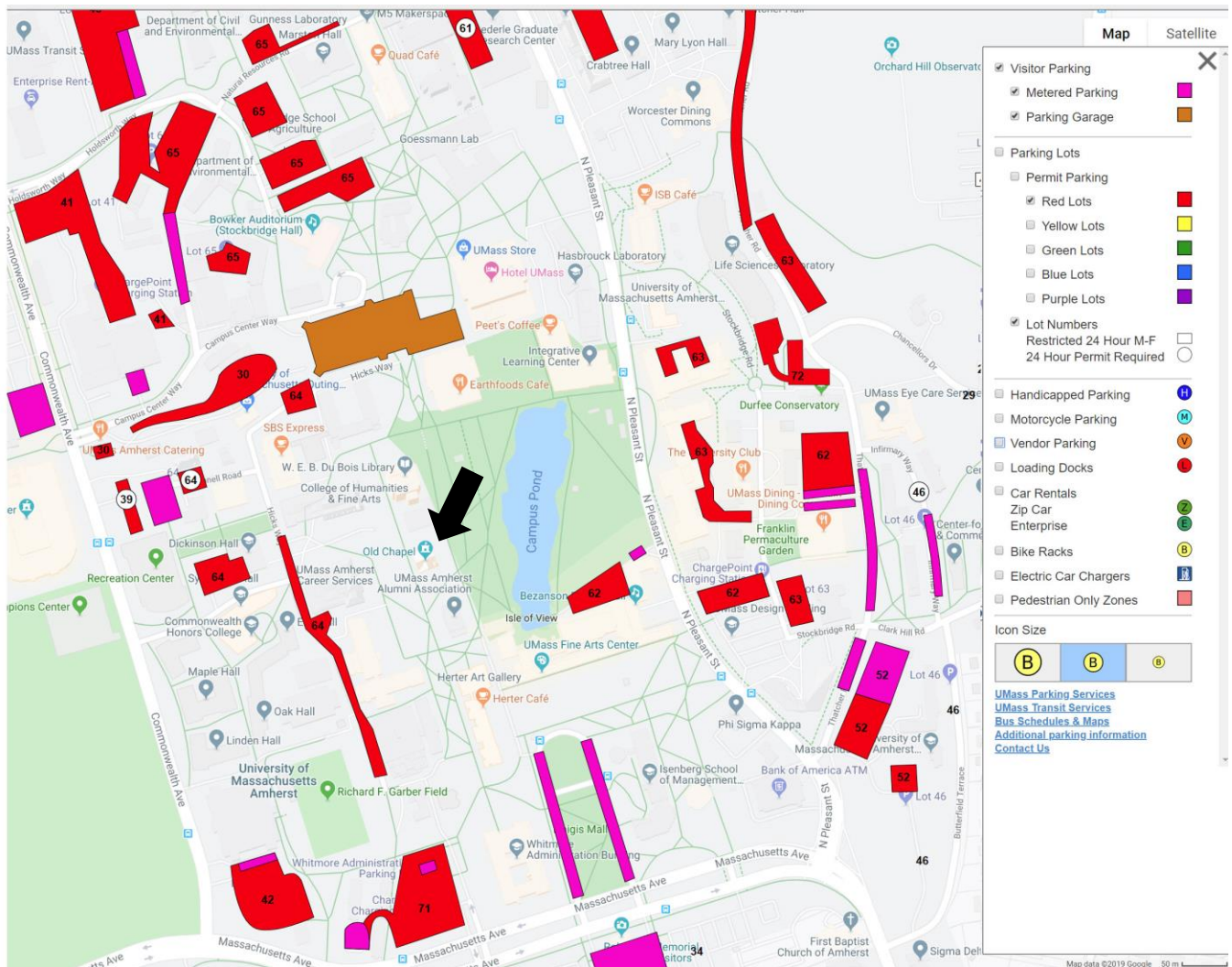
Who cares? Identity and motivation of helpers during allomaternal care in *Colobus guereza*

21) Durr-E-Ajam Riaz, Stony Brook University, Anthropology

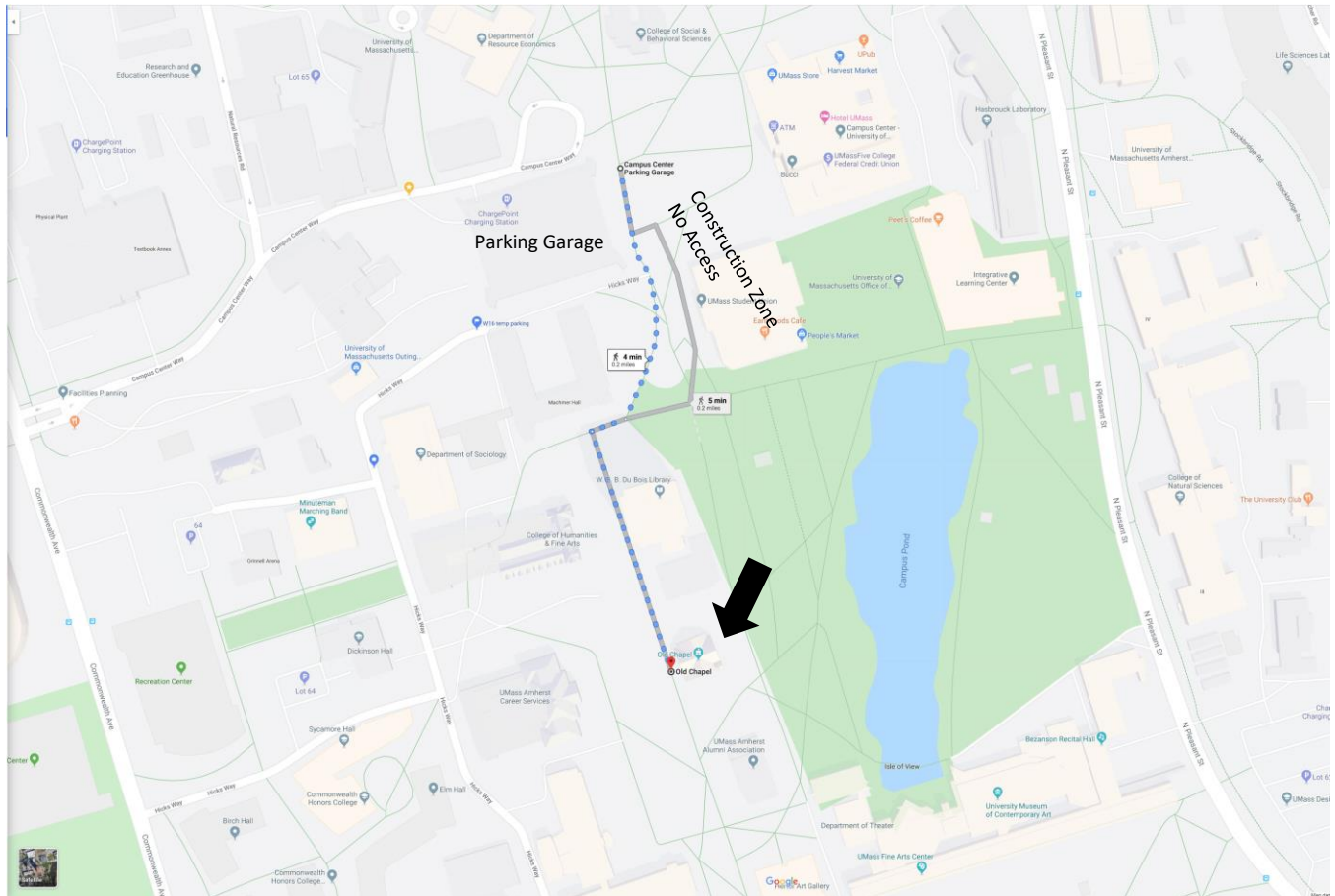
and Carola Borries, Julia Nikolei, Thomas Ziegler, Andreas Koenig

Female agonism in Nepal gray langurs: food or mate competition?

- 22) Jessica Rosien**, Dartmouth College, Biology/Anthropology
and Nathaniel J. Dominy, Suchinda Malaivijitnond, Amanda W. Y. Tan
Experimental evidence for tradeoffs in sand averse behaviors in a population of coastal macaques
- 23) Ryan Rothman**, Stony Brook University, IDPAS
and Jeroen Smaers
The evolution of primate brain size follows the pattern of an adaptive radiation
- 24) John Rowan**, University of Massachusetts, Organismic and Evolutionary Biology
and Kaye E. Reed, Lydia Beaudrot, Irene E. Smail, Jason M. Kamilar
A 27-Myr record of large mammal community turnover during ape and human evolution in eastern Africa
- 25) Srishti Sathir**, University of Connecticut; National Museum of Natural History, Smithsonian Institution,
Department of Anthropology, Department of Ecology and Evolutionary Biology; Department of Biological
Anthropology
and Andrea R. Eller, Stephanie L. Canington, Sabrina B. Sholts
Skin pigmentation variability in baboons: implications for vitamin D deficiency
- 26) Maura Tyrrell**, University at Buffalo, State University of New York, Evolution, Ecology and Behavior
Graduate Program
and Carol Berman, Muhammad Agil, Try Sutrisno, Antje Engelhardt
**Avoidant social relationships among wild male crested macaques (*Macaca nigra*) in Tangkoko Reserve,
Sulawesi, Indonesia**
- 27) Ciela Vega**, Boston University, Anthropology
and Stephanie A. Poindexter, Erin E. Kane, and Eva C. Garrett
Eulemur nasal cavity variation across latitude and forest type
- 28) Darice Westphal**, GC CUNY, NYCEP, Anthropology
and Brandon Wong, April Wu
Comparison of deforestation rates in protected and unprotected forests in Madagascar
- 29) Jack Winans**, Stony Brook University, IDPAS
and Catherine Markham
Predictors of spatial proximity in wild female savanna baboons: the effect of habitat openness
- 30) Melissa Zarate**, Boston University, Biology
and Fanny M Cornejo, Sam Shanee, Christopher A Schmitt
**Impact of habitat fragmentation on genetic diversity of the critically endangered yellow-tailed woolly monkey
(*Lagothrix flavicauda*) in Peru**



Recommended Parking: Parking Garage or Red Lot 64



Walking from Parking Garage to Old Chapel: There is a lot of construction occurring east of the Parking Garage so the best walking route leaves the northeast exit of the Parking Garage and walk south to Old Chapel. Old Chapel is directly south of the DuBois Library, which is the tallest building on campus.



Extra Info

Recommended Dinner/Drink options in downtown Amherst

Johnny's Tavern (Gastropub) <https://www.johnnystavernamherst.com/>

Kaiju (Ramen and Korean BBQ) <http://kaiju-amherst.com/>

The Taste (Authentic Thai food)

Judie's (American/New England cuisine) <https://judiesrestaurant.com/>

Bistro 63 (Gastropub) <https://www.bistro63.com/>

High Horse (Gastropub) <https://www.highhorseamherst.com/>

Recommended Breakfast options in downtown Amherst

The Lone Wolf <http://www.lonewolfamherst.com/>

The Black Sheep <http://www.blacksheepdeli.com/>

Share Coffee <https://sharecoffee.com/locations/share-amherst/>

Bruegger's Bagels <https://locations.brueggers.com/us/ma/amherst/170-n-pleasant-st>

The Works Café <https://workscafe.com/locations/amherst/>

Also, lots of options in Northampton (~20 minutes west of campus via Route 9)