



**Chinmay Shah**

**Ph.D. Engineering: Electrical Engineering**

*B.T., Nirma University, 2012; M.S., University of Houston, 2017.*

**Thesis: Optimization and Forecasting Algorithms for Converter Dominated Distribution Networks using Blockchain and AI**

S qd pda ej \_ra] o] c ej pacn] p]k] kbraj as ] ^ha aj arcu maokqn\_ao SNAO%ej ] ks an  
cne` of okl deope\_] pa` ] ]rckn]pdi o] ra j aa` a` pk kl pa` eva` eol ] p\_d brki` pdaoa  
raokqn\_ao\* Pdeo` eoaap] p]k] ] raoaj po] ^hk\_g\_d] ej ) ^] oa` ] n\_dqpa\_pqra bkn\_k)  
kl pa` ev] p]k] kbaj arcu` eol ] p\_d ] j` o\_da` qhtj c raocarr ao pk ra` q\_a pda e ] ] \_p  
kbNAOqj \_arp] ej pu ] j` aj d] j \_a pda ] ks an` eopre^q] p]k] j aps kng` at e` d] tpu`

Major professor: Dr. Richard Wies Jr.

**Eva Stephani \*\***

**Ph.D. Permafrost Geosystems: Interdisciplinary Studies**

*B.E., Laval University, 2009; M.S., University of Alaska Fairbanks, 2013.*

**Thesis: Understanding Permafrost Dynamics and Geohazards with a Terrain- Cryofacies Approach**

Pdeo oq] `u \_kj pre^q] pao pk ] ` r] j \_ej c kqnqj ` arop] j ` ej c kbl ari ] brkop  
`uj ] i\_e\_o ej r] nu] c aj rerkj i aj po qo] c ] ] ] rk] \_dao pd] pra\_kcj eva htj g] cao  
^aps aaj pan] ej ] j` oq^oqr] ] \_a \_kj` ep]k] o\* Pda i ] ej` j` ej co ej \_tq` a`  
e aj p] bu] c ] rkl ar] pao kb] ] h] go ] j` \_ nuk] aco rah] pa` pk` al] ] e \_d] ] j ah  
i ce] ] p]k] ( ] j` pda` arafkl i aj p\_u\_ha kb] ] ] s otqi ] o ej q] ] pa` ^u ej pan] \_p]k] o  
s qd ej bn] o] r] q\_ p] qra`

Major professors: Dr. Yuri Shur and Dr. Guy Dore

**Molly Elizabeth Tedesche \***

**Ph.D. Hydrology: Interdisciplinary Studies**

*B.S., Rochester Institute of Technology, 2004; M.S., Colorado State University, 2010.*

**Thesis: Brooks Range Perennial Snowf elds: Mapping and Modeling Chanj B**

\* Summer degree recipient

\*\* Fall degree recipient

# College of Fisheries and Ocean Sciences

*Dr. S. Bradley Moran, Dean*

**Patrick Dylan Barry \***

**Ph.D. Fisheries**

*B.A., Carleton College, 2005; M.S., University of Alaska Fairbanks, 2010.*

**Thesis: Spatio-temporal Genetic Structure, Effective Population Size and Parentage Simulations from Contemporary Genetic Samples and Historic Demographic Data From Sockeye Salmon (*Oncorhynchus nerka*) in Auke Lake, Alaska**

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**Jason Christopher Leppi \***

**Ph.D. Fisheries**

*B.S., Montana State University, 2005; M.S., University of Montana, 2010.*

**Thesis: Broad Whitefish (*Coregonus nasus*) Ecology and Habitat Use in Arctic Alaska: Spawning Habitat Suitability, Isotopic Niches, Life-History Variations, and Climate Change Risks to Subsistence Fisheries**

Pda ^rk]` s dqa od eo ]j ei l krp]j poq^oepaj \_a ol a\_ao kn=l] og] o  
Ej `eaj kqo \_ki i qj qao(uap hppa eo gj ks j ]^kqp pda ^] oe\_ a\_kkcu kb pde

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\* Summer degree recipient

\*\* Fall degree recipient

# College of Liberal Arts

*Dr. Ellen D. S. Lopez, Dean*

**Christopher Michael Cannon \*\***

***Ph.D. Anthropology***

*B.S., University of Alaska Fairbanks, 2007; M.A., University of Alaska Fairbanks, 2014.*

# College of Natural Science and Mathematics

Dr. Kinchel C. Doerner, Dean

## Gazi Mahmud Alam

### Ph.D. Mathematics

B.S., Shahjalal University of Science and Technology, 1998; M.S., Shahjalal University of Science and Technology 1999; M.S., Stockholm University, 2013.

### Thesis: Control Problems for the Wave and Telegrapher's Equations on Metric Graphs

Pda `eoarp] p̄kj bk\_qoao kj \_kj prkhl rk^hai o bkn s ]ra ]j ` palacr]l dan o anq] p̄kj o kj nq] ] p̄i cñ] l do\* J qi are\_] h] h\_knēpdi o ]ra ` arakl a` p̄k oklra pda \_kj prkhl rk^hai o bkn pda s ]ra anq] p̄kj \* Pda j a\_aoo] nu ]j ` oq \_əj p \_kj ` ep̄kj o kb pda at ]\_p\_kj prkhl ^ ep̄u bkn pda palacr]l dan o anq] p̄kj ]ra l rkl kca` ( ]j ` pda i ē ē ]h\_kj prkhp̄i a eo ē ` e\_] p̄a` \*

Major professor: Dr. Sergei Avdonin

## Janelle Jean Badger \*

### Ph.D. Biological Sciences: Wildlife Biology and Conservation

B.S., Washington State University, 2015; M.S., University of Alaska Fairbanks, 2020.

### Thesis: Drivers of Life History Variation in a Long-Lived, Marine Predator: Individual Heterogeneity in Reproductive Performance of Grey Seals (*Halichoerus grypus*)

@uj ] i e\_o kb ral rk` q\_pra daparkaj aqu s ara at l hkra` ē crau oa] ho \$Halichoerus grypus% ^raa` ē c kj O] ^ha Eō] j ` ( J kr] O\_kp̄ē \* Naoq] p̄o ē ` e\_] p̄a p̄d] p̄ē ` e` ē q] hr] nē p̄kj eo ] i ] ē ` nē an ē hēa deopknao p̄d] p̄ē pan] \_po s ep̄d a\_klkce\_] h\_kj ` ep̄kj o ]j ` i ] u opai b̄ki a] rhu hēa \_d] n] \_parop̄e o (oda` ` ē c j as hēdpkj a\_k) arklq̄p̄kj ] nu l rk\_aooao ē ]kj c) hēa` ]j ē ] hō\*

Major professor: Dr. Greg Breed

## Matthew S. Balazs \*\*

### Ph.D. Geology

B.A., University of Alaska Fairbanks, 2010; B.S., University of Alaska Fairbanks, 2010.

### Thesis: Novel Applications of Remote Sensing and GIS in Mass Wasting Hazard Assessments for Two Fjords of South-Central Alaska

Pdeo raoo] n\_d qoao rai kpa oaj oē c p̄a\_dj enqao p̄k ē aj p̄bu ]j ` i ] l i ] oo s ] op̄ē c d] v] n` o ē Qas ] n` ]j ` S deppan (=h og] \* I ] l l ē c a k̄p̄o ] ra ē l rkra` ^u \_ra] p̄ē c ] / @ Hj ` o\_] l a ]j ` reas ē c ep̄ē ]j ē i anōra rēp̄q] hna] h̄qu aj rēkj i aj p̄ Qa` ē aj p̄ p̄kj ē \_nqē\_] hē bn] op̄q\_p̄ra eo \_] h\_q] h] p̄a` p̄drkqcd p̄i a oanao ]j ] huao qoē c i qh̄ē ha alar] p̄kj i k` aho\*

Major professors: Dr. Anupma Prakash and Dr. Gabriel Wolken

\* Summer degree recipient

\*\* Fall degree recipient



**Aline Louise Collin \*\***

**Ph.D. Biochemistry and Molecular Biology**

A.A., Mineral Area College, 2009; B.S., Missouri University of Science and Technology, 2011.

**Thesis: 3T3-L1 Adipocytes as a Model of Glut4 Translocation**





**Elizabeth Fleur Nicklen**

**Ph.D. Biological Sciences**

B.A., Rutgers, The State University of New Jersey, 2002; M.S., University of Alaska Fairbanks, 2006.

**Thesis: Seeing the Forest Through the Trees: How Site Conditions Mediate Black and White Spruce Responses to Climate in Interior Alaska**

Qoqj c praanaj ci a]oqrai aj pbrki s dpa lj ` ^h\_g ol nq\_a ej fj pnrkn=H og] ( pda oqj `u nq]j pe a` dks hk\_]hr]nq]pkj ej oqpa lj ` oq]j ` \_kj ` epkj o bkn\_a ` `erancj c crks pd naol kj cao pk oa` d]n\_hi ]pa \_kj ` epkj o(l rkr'e ej ej oedp ej pk dks pdaa ol a\_ao l rk` q\_p`epu i ]u l H u kqps epd kj ckj c \_hi ]pa \_d]j cao ]\_rko] daparkcaj akqo H j ` o\_]l a\*

Major professor: Dr. Roger Ruess

**Matthew Christopher Rogers \***

**Ph.D. Biological Sciences**

B.S., University of Michigan, 2000; M.S., University of Alaska Anchorage, 2008.

**Thesis: Applications of Stable Isotope Analysis to Advancing the Understanding of Brown Bear Dietary Ecology.**

>rks j ^a]n` ep] nu a\_klkcu s ]o ej raopæ]pa` qoqj c oq] ^ha epkpl a ]j ]huoepk ej banoa]okj ]h` ep] nu l ] pparj o kbj `ere q]h^a]no ej ra =H og] a\_kouqpai o\* I kop^a]no `eol hu ` ep] nu l ] pparj o pd] pl anooep pdrkqcd pa a(l]j ` pdau l kparj p]hu i ]ej p]ej bkn]cej c l ] pparj o araj s daj maokqna ]r] d] ^epu \_d]j cao `qa pk j ] pqr]h q\_p]pkj o(` epqr^]j \_a kn\_hi ]pa \_d]j ca\*

Major professors: Dr. Brian Barnes and Dr. Jef rey Welker

\* Summer degree recipient  
\*\* Fall degree recipient

# College of Rural and Community Development

Mr. Bryan Uher, Dean

**Margaret Susan Draskovich Mete \*\***

**Ph.D. Indigenous Studies**

B.S., St. Francis School of Nursing, 1977; M.P.H., University of South Florida, 1994; M.S., University of Alaska Anchorage, 1999.

**Thesis: Celebrating Alutiiq Cultural Revitalization: Pathways to Holistic Individual Health and Community Wellness**

Pda l rki k p k j kb ^] h j \_a` d k l e o p e \_ d a] l p d ^ u ] ` ` r a o o j c r k k p \_] q o a o ( ] \_ \_ a o a ` p d r k q c d \_ k i i q j e \_] p k j s e p d p d a j ] p q n] h] j ` o l e p p q] h r a] h i o r a n o q o i a r a h u p r a] p j c l d u o e \_] h i ] j d a o p] p k j o ( s ] o a t l h k r a ` \* P d a ] \_ p r a \_ q l p q n] h