John D. Hatle

Department of Biology

University of North Florida

1 UNF Drive

Jacksonville, FL, USA 32224

jhatle@unf.edu; 904-620-2778

<https://hatle.domains.unf.edu/>

EDUCATION

B.A. Luther College, Decorah, Iowa, USA (1991)

Ph.D. Univ. of Louisiana at Lafayette, USA (1998)

### PROFESSIONAL POSITIONS

Distinguished Professor (2023-2024), University of North Florida (UNF)

One selected each year. UNF’s highest faculty award.

Professor (2013–present), UNF

Terry Presidential Professor (2016-2019), UNF

Two selected every three years.

Associate Professor (2008–2013), UNF

Assistant Professor (2003–2008), UNF

RESEARCH PUBLICATIONS – **ALL PEER REVIEWED** (except #1)

(student co-authors underlined, corresponding author \*)

1. Conklin KR, Peters H, Tomlinson M, Sein R, Kaplan J, Nealy G, Horton A, Husein H, Ihemis I, McCue MD, Hatle JD. Pending submission. Leucine catabolism is associated with longevity in female eastern lubber grasshoppers.
2. Kordek EN, Yip AM, Horton AM, Sohn H, Strasser N, Makhtin M, **Hatle JD\*** (2024) High-quality dietary protein (essential amino acids match to reproductive needs) partially breaks the lifespan and reproduction trade-off in lubber grasshoppers. Biogerontology.
3. **Hatle JD**\*, Clark C, Agne P, Strasser N, Arcaro J, Kordek EN, Rogers K, Short CA, Sahni E, Sullivan S, Reams BR, Halleak S (2023). The effects of dietary amino acid balance on post-embryonic development in a lubber grasshopper. Journal of Insect Physiology 151: 104586.
4. **Hatle JD\***, Maslikova V, Short CA, Bracey D, Darmanjian M, Morningstar S, Reams B, Mashanov VS, Jahan-Mihan A, Hahn DA (2022) Protein storage and reproduction increases in grasshopper on a diet matched to the amino acids of egg yolk protein. Journal of Experimental Biology 225 (17): jeb244450.
5. Short CA, **Hatle JD**, Hahn DA\* (2020) Protein stores regulate when reproductive displays begin in the male Caribbean fruit fly. *Frontiers in Physiology* 11: 991.
6. **Hatle JD\***, Karjasevic A, Rehfeldt E, Nagle FS, Milano LJ, Patel S, Hiatt D, McCue MD (2019) Life-extending dietary restriction, but not dietary supplementation of branched-chain amino acids, can increase organismal oxidation rates of individual branched-chain amino acids by grasshoppers. *Nutrition and Healthy Aging* 05: 209-223.
7. Heck MJ, **Hatle JD**\* (2018) Interaction of neuropeptide F and diet levels effects carbonyl levels in grasshoppers. *Experimental Gerontology* 113: 186-192.
8. **Hatle JD**\*, Awan A, Nicholas J, Koch R, Vokrri JR, McCue MD, Williams CM, Davidowitz G, Hahn DA (2017) Life-extending dietary restriction and ovariectomy each increase leucine oxidation and alter leucine allocation in grasshoppers. *Experimental Gerontology* 96: 155-161. http://dx.doi.org/10.1016/j.exger.2017.06.019
9. Heck MJ1, Pehlivanovic M1, Purcell JU, Hahn DA, **Hatle JD\*** (2016) Life-extending dietary restriction reduces oxidative damage of proteins in grasshoppers but does not alter allocation of ingested nitrogen to somatic tissues. *J Gerontol A Biol Sci Med Sci*. doi:10.1093/gerona/glw094. (1equal contribution)
10. Tetlak AG, Burnett JB, Hahn DA, **Hatle JD**\* (2015) Vitellogenin RNAi and ovariectomy each increase lifespan, increase protein storage, and decrease feeding, but are not additive in grasshoppers. *Biogerontology* 16: 761-774. [http://link.springer.com/article/10.1007/s10522-015-9599-3](http://www.springer.com/-/6/AVBohgr2nYabzt6n2mWp)
11. Tokar DR1, Veleta KA1, Canzano J, Hahn DA, **Hatle JD**\* (2014) Vitellogenin RNAi halts ovarian growth and diverts reproductive proteins and lipids in young grasshoppers. *Integrative and Comparative Biology* 54: 931-941. (1equal contribution)
12. **Hatle JD\***, Kellenberger JW, Viray E, Smith AM, Hahn DA (2013) Life-extending ovariectomy in grasshoppers increases somatic storage, but dietary restriction with an equivalent feeding rate does not. *Experimental Gerontology* 48:966-972.
13. Judd ET, Wessels FJ, Drewry MD, Grove M, Wright K, Hahn DA, **Hatle JD\*** (2011) Ovariectomy in grasshoppers increases somatic storage, but proportional allocation of ingested nutrients to somatic tissues is unchanged. *Aging Cell* 10:972-979.
14. Drewry MD, Williams JM, **Hatle JD\*** (2011) Life-extending dietary restriction and ovariectomy result in similar feeding rates but different physiological responses in grasshoppers. *Experimental Gerontology* 46:781-786.
15. Wessels FJ, Kristal R, Rourke M, **Hatle JD**, Hahn DA\* (2011) The timing of resource availability does not affect reproductive allotment or the rate of oocyte development in the flesh fly, *Sarcophaga crassipalpis*. *Ecological Entomology.* 36:401-408.
16. Wessels FJ, Kristal R, Netter F, **Hatle JD**, Hahn DA\* (2011) Does it pay to delay? Flesh flies show adaptive plasticity in reproductive timing. *Oecologia* 165:311-320.
17. Stauffer TW, **Hatle JD**, Whitman DW\* (2011) Divergent egg physiologies in two closely related grasshopper species: *Taeniopoda eques* versus *Romalea microptera* (Orthoptera: Romaleidae). *Environmental Entomology* 40:157-166.
18. Urian AG, **Hatle JD**, Gilg MR\* (2011) [Thermal constraints for range expansion of the invasive green mussel, *Perna viridis*, in the southeastern United States.](http://www.ncbi.nlm.nih.gov/pubmed/20853420) Journal of Experimental Zoology A: Ecological Genetics and Physiology 315:12-21.
19. Judd ET1, **Hatle JD\***1, Drewry MD, Wessels FJ, Hahn DA (2010) Allocation of nutrients to somatic tissues in young ovariectomized grasshoppers. Integrative and Comparative Biology 50:818-828. (1equal contribution)
20. **Hatle JD**\*, Oppert B (2010) Insect gut physiology and nutrition: insights into diverse systems. *African Entomology* 18:1-7.
21. Hathaway M, **Hatle JD**, Li S, Ding X, Barry T, Hong F, Wood H, Borst DW\* (2009) Characterization of hexamerin proteins and their mRNAs in the adult lubber grasshopper: the effects of nutrition and juvenile hormone on their levels. *Comparative Biochemistry and Physiology A* 154:323-332.
22. Fronstin RB and **Hatle JD\*** (2008) Interpopulation variation in body mass after laying and age at oviposition, but not clutch mass, in eastern lubber grasshoppers. *Journal of Orthoptera Research* 17:273-277.
23. Hahn DA\*, James L, Milne K and **Hatle JD\*** (2008). Life history plasticity after attaining a dietary threshold for reproduction in associated with protein storage in flesh flies. *Functional Ecology* 22:1081-1090.
24. **Hatle JD**\*, Paterson CS, Jawaid I, Lentz C, Wells SM, Fronstin RB (2008) Protein accumulation underlying lifespan extension via ovariectomy in grasshoppers is consistent with the disposable soma hypothesis but is not due to dietary restriction. *Experimental Gerontology* 43:900-908*.*
25. Fronstin RB and **Hatle JD\*** (2008) A cumulative feeding threshold required for vitellogenesis can be obviated with juvenile hormone treatment in lubber grasshoppers. *Journal of Experimental Biology* 211:79-85.
26. **Hatle JD\***, Wells S, Fuller LE, Allen IC, Gordy LJ, Melnyk S and Quattrochi J (2006) Calorie restriction and late-onset calorie restriction extend lifespan but do not alter protein storage in female grasshoppers. *Mechanisms of Ageing and Development* 127:883–891.
27. **Hatle JD\***, Waskey T Jr. and Juliano SA (2006) Plasticity of grasshopper vitellogenin production in response to diet is primarily a result of changes in fat body mass. *Journal of Comparative Physiology B* 176:27–34.
28. Fei H, Martin TR, Jaskowiak KM, **Hatle JD**, Whitman DW and Borst DW\* (2005) Starvation affects vitellogenin production but not vitellogenin mRNA levels in the grasshopper, *Romalea microptera*. *Journal of Insect Physiology* 51:435–443.
29. Juliano SA\*, Olson JR, Murrell EG and **Hatle JD** (2004) Plasticity and canalization of insect reproduction: Testing alternative models of life history transitions. *Ecology* 85:2986–2996.
30. **Hatle JD\***, Andrews AL, Crowley MC and Juliano SA (2004) Interpopulation variation in developmental titers of vitellogenin, but not storage protein, in lubber grasshoppers. *Physiological and Biochemical Zoology* 77:631–640.
31. Gunawardene EU, Stephenson RE, **Hatle JD** and Juliano SA\* (2004) Are reproductive tactics determined by local ecology in the eastern lubber grasshopper *Romalea microptera* (Orthoptera: Acrididae)? *Florida Entomologist* 87:119–123.
32. **Hatle JD\*** (2003) Physiology underlying phenotypic plasticity and polyphenisms: introduction to the symposium. *Integrative and Comparative Biology* 43:605–606.
33. **Hatle JD\***, Borst DW and Juliano SA (2003) Plasticity and canalization in the control of reproduction in the lubber grasshopper. *Integrative and Comparative Biology* 43:635–645.
34. **Hatle JD\***, Miller WA and Borst DW (2003) Canalization of development and ecdysteroid timing during the last instar in lubber grasshoppers. *Journal of Insect Physiology* 49:73–80.
35. **Hatle JD\***, Juliano SA and Borst DW (2003) Hemolymph ecdysteroids do not affect vitellogenesis in the lubber grasshopper. *Archives of Insect Biochemistry and Physiology* 52:45–57.
36. **Hatle JD\***, Salazar BAand Whitman DW (2002) Survival advantage of sluggish individuals in aggregations of aposematic prey, during encounters with ambush predators. *Evolutionary Ecology* 16:415–431.
37. **Hatle JD\***, Spring JH and Dow JAT (2002) Ion and water transport in the orthopteran alimentary canal: a comparison of Mantidae and Acrididae. *Journal of Orthoptera Research* 11:19–24.
38. **Hatle JD\***, Crowley MC, Andrews AL and Juliano SA (2002) Geographic variation of reproductive tactics in lubber grasshoppers. *Oecologia* 132:517–523.
39. Luker LA, **Hatle JD** and Juliano SA\* (2002) Reproductive responses to photoperiod by south Florida population of the grasshopper, *Romalea microptera* (Orthoptera: Romaleidae). *Environ Entomol* 31:702–707.
40. **Hatle JD\***, Borst DW, Eskew MEand Juliano SA (2001) Maximum titers of vitellogenin and total hemolymph protein occur during the canalized phase of grasshopper egg production. *Physiol Biochem Zoology* 74:885–893.
41. **Hatle JD**\*, Salazar BAand Whitman DW (2001) Sluggish movement and repugnant odor are positively interacting defensive traits in encounters with frogs. *Journal of Insect Behavior* 14:479–496.
42. **Hatle JD\*** and Whitman DW (2001) Sluggish movement of conspicuous insects as a defense mechanism against motion-oriented predators. In: T. Ananthakrishnan (Ed). *Insect and Plant Defense Dynamics*. Oxford & I.B.H. pp. 209–228.
43. **Hatle JD\*** and Salazar BA (2001) Aposematic coloration of gregarious insects can delay predation by an ambush predator. *Environmental Entomology* 30:51–54. http://journals.entsoc.org/environ/v30n1/v30n1p51.pdf
44. **Hatle JD\***, Juliano SA and Borst DW (2000) Juvenile hormone is a marker of the onset of canalized reproduction in lubber grasshoppers. *Insect Biochemistry and Molecular Biology* 30:821–827.
45. Borst DW\*, Eskew MR, Wagner SJ, Shores KM,Hunter J, Luker LA,**Hatle JD** and Hecht LB (2000) Quantification of juvenile hormone III, vitellogenin, and vitellogenin-mRNA during the oviposition cycle of the lubber grasshopper. *Insect Biochemistry and Molecular Biology* 30:813–819.
46. **Hatle JD** and Spring JH\* (1999) Tests of potential adipokinetic hormone precursor related peptide (APRP) functions: lack of responses. *Archives of Insect Biochemistry and Physiology* 42:163–166.
47. **Hatle JD\*** and Faragher SG(1998) Slow movement increases the survivorship of a chemically defended grasshopper in predatory encounters. *Oecologia* 115:260–267.
48. **Hatle JD\*** and Spring JH (1998) Inter-individual variation in sequestration (as measured by energy dispersive spectroscopy) predicts efficacy of defensive secretion in lubber grasshoppers. *Chemoecology* 8:85–90.
49. **Hatle JD** and Spring JH\* (1998) AKHs in fifth instar *Romalea guttata* (Orthoptera: Acrididae): activation of glycogen phosphorylase does not produce hypertrehalosemia. *Florida Entomologist* 81:535–542.
50. **Hatle JD\*** and Townsend VR Jr. (1996) Defensive secretion of a flightless grasshopper: failure to prevent lizard attack. *Chemoecology* 7:184–188.

RESEARCH TALKS AND POSTERS OF UNPUBLISHED WORKS – **NOT PEER REVIEWED**

**(**student authors underlined, presenter \*)

1. Conklin KR, Peters H, Tomlinson M, Sein R, Horton AM, Ihemis I, Husein H, Clark C, Hatle JD (2025) Association of catabolism of leucine with longevity, upon dietary isoleucine-restriction, in grasshoppers. Annual meeting of the Society for Integrative and Comparative Biology. Atlanta GA
2. Horton AM, Yip AM, Kordek EN, **Hatle JD** (2025) Low-quantity dietary protein, but not low-quality dietary protein, reduces egg lipid content in lubber grasshoppers. Annual meeting of the Society for Integrative and Comparative Biology. Atlanta GA.
3. Kordek EN\*, Yip AM, Horton AM, **Hatle JD** (2024) Impacts of dietary protein quality on reproduction and lifespan of lubber grasshoppers. Annual meeting of the Society for Integrative and Comparative Biology. Seattle WA.
4. Peters H\*, Conklin KR, Clark C, **Hatle JD** (2024) Dietary isoleucine restriction increases catabolic flux of valine and leucine in lubber grasshoppers. Annual meeting of the Society for Integrative and Comparative Biology. Seattle WA.
5. **Hatle JD** (2024) Effects of dietary protein quality on development of grasshoppers. Seminar for the retirement of Dr. Steven Juliano. Illinois State University.
6. Kordek EN\*, Yip AM, Horton AM, **Hatle JD** (2023) Effects of dietary protein quality on fecundity and longevity in grasshoppers. Annual meeting of the Society for Integrative and Comparative Biology. Austin TX.
7. Strasser N\*, Makhtin M, **Hatle JD** (2023) Dietary protein quality does not alter P:C intake target in grasshoppers. Annual meeting of the Society for Integrative and Comparative Biology. Austin TX.
8. **Hatle JD** (2023) Effects of amino acid ingestion and catabolism on longevity in grasshoppers. *Invited talk for the UNF Biology seminar series.*
9. **Hatle JD** (2021) Metabolic roles of amino acids underlying life-extension in grasshoppers. *Invited talk for the UNF Biology seminar series.* (via Zoom)
10. **Hatle JD** (2021) Metabolic shifts underlying life-extension in grasshoppers. *Invited talk for the Luther College Department of Biology.* (via Zoom)
11. **Hatle JD** (2018) Life-extending dietary restriction can increase oxidation of branched-chain amino acids. *Invited talk at the UNF Biology seminar series.*
12. **Hatle JD** (2017) Effects of dietary restriction on lifespan in grasshoppers. *Invited talk at the Univ of Texas Southwest Medical Center.*
13. **Hatle JD** (2016) Effects of dietary restriction and ovariectomy on lifespan in grasshoppers. *Invited talk at the UNF / Mayo symposium.*
14. **Hatle JD** (2015) Effects of dietary restriction and ovariectomy on lifespan in grasshoppers. *Invited talk to the New Mexico State Univ Department of Biology.*
15. **Hatle JD** (2013) Effects of reproduction on lifespan in grasshoppers. *Invited talk to the Sam Houston State University Department of Biology.*
16. **Hatle JD** (2011) Effects of reproduction on lifespan in grasshoppers. *Invited talk to the University of Florida Animal Molecular and Cellular Biology Program.*
17. **Hatle JD** (2010) How does dietary restriction extend lifespan. *Science Café for the Jacksonville FL Chapter of Sigma Xi.*
18. **Hatle JD** (2010) Effects of reproduction on life span in grasshoppers*. Invited talk to the University of South Florida Department of Biology.*
19. Bastea L\*, Walker L, Virgilio A, Brix KV, Wada RH, Wessels FJ, Hahn DA, **Hatle JD** (2010) Mild life extension and reduced reproductive output in female flesh flies on dietary protein restriction. *SICB.*
20. **Hatle JD** (2008) Ovariectomy and calorie restriction extend longevity in grasshoppers without altering protein allocation to storage and reproduction. *Invited talk to the University of Florida–Gainesville, Department of Zoology.*
21. **Hatle JD** (2007) Ovariectomy extends lifespan in grasshoppers independent of calorie restriction. *New Investigator Forum of the National Institute on Aging–Biology of Aging Program.*
22. **Hatle JD** (2006) The physiology underlying phenotypic plasticity of reproduction and longevity in grasshoppers. *Invited presentation to the Department of Ecology and Evolutionary Biology at Brown University, Providence, RI.*
23. **Hatle JD** (2005) Developmental thresholds, and the physiology underlying phenotypic plasticity, in the lubber grasshopper. *Invited presentation to the Department of Entomology at the University of Florida, Gainesville*.

EXTRAMURAL RESEARCH FUNDING AND AWARDS

1. SUBMITTED SEPTEMBER 2025. Sickening essentials and salubrious non-essentials: roles of dietary amino acids in healthspan. *National Institutes of Health* Support for Research Excellence (R16).
2. Testing direct effects of reproduction on lifespan with controlled feeding in grasshoppers (2016-2019) *National Institute on Aging* Academic Research Enhancement Award (R15) Priority score of 12 (score range 10-90, lowest is best). $432,525.
3. Supplement to “Collaborative Research: Testing for physiological and genetic independence of rapidly evolving lifecycle components in the apple maggot, a model for seasonal adaptation”. (2013 – 2014) *National Science Foundation*, $35,480. Awarded to Daniel A. Hahn to provide funds for training John Hatle.
4. Nutrient allocation and anti-oxidant activity upon dietary restriction or ovariectomy in grasshoppers (2010 – 2013) *National Institute on Aging* Academic Research Enhancement Award (R15). Priority score of 10 (score range 10-90, lowest is best). $339,000.
5. Travel and lodging award for National Institute on Aging’s Summer Institute on Aging Research (2011)
6. Travel and registration award for speakers in symposium "Metabolism, Life History, and Aging" (2010) *Society for Integrative and Comparative Biology*
7. Testing direct effects of reproduction on stress & mortality via ovariectomy (2006-2009) *National Institute on Aging* Academic Research Enhancement Award (R15). Priority score of 123 (score range 100–500, lowest is best). $166,488.
8. Travel award to New Investigator Forum of the National Institute on Aging–Biology of Aging Program. (2007) $948.
9. Symposium: Physiology underlying phenotypic plasticity and polyphenism (2002) *National Science Foundation*. $6,000.
10. Inter-individual variation in grasshopper defensive secretion: implications for defense and mate acquisition (1998) *National Science Foundation Doctoral Dissertation Improvement Grant.* $5,003.

SELECTED INTRAMURAL RESEARCH FUNDING AND AWARDS

1. UNF College of Arts and Sciences Deans Council Leadership award. (2025) $3,000.
2. UNF Undergraduate Research Mentor of the Year (2023-4). $1,000.

1. Undergraduate research experience for students with financial need (2023) UNF High Impact Practices grant. $10,000.
2. Carbon-13 carbon dioxide analyzer for metabolic measurements in animals & plants (2022) UNF Shared RSCA Instrumentation Grant. $105,000.
3. Testing protein use for energy in animals on life-extending diets (2019) UNF Summer Scholarship award. Delayed until 2021 due to pandemic. $7,500.
4. Terry Presidential Professorship (2016-2019) One course release each year while at UNF, and $22,500 over 3 years.
5. Studying the effects of reproduction on aging using RNA transcriptomes from grasshoppers (2013; funding deferred to 2014-15) UNF Academic Affairs Proposal development award. $7,500.
6. Nutrient allocation and anti-oxidant activity upon dietary restriction or ovariectomy in grasshoppers (2011) Matching Award from UNF. $8,500.
7. Effects of reproduction on lifespan in insects (2009-10) One-semester full sabbatical (taken fall 2010). Equivalent to ~$21,000 in course buyout.
8. Role of superoxide dismutase in rapidly slowing aging (2006) Faculty Fellowships from the COAS Dean’s Leadership Council. $4000 + one course release.
9. Testing direct effects of reproduction on stress and mortality via ovariectomy (2006) Matching Award from UNF College of Arts and Sciences. $12,000.
10. Symposium: Physiology underlying phenotypic plasticity and polyphenisms (2002) *National Science Foundation Grant.* Project director, $4,715.
11. Faculty mentor appreciation award (2000) ISU Red Tassel Chapter of Mortar Board. One of 38 faculty (out of about 1,170) selected by honors students.
12. University of Louisiana at Lafayette nominee for Council of Graduate School's outstanding biology dissertation (1999). Selected as University of Louisiana at Lafayette’s best dissertation in biology (out of 9) over 2-year period.
13. University of Louisiana Doctoral Fellowship (1993–1997) $48,000. One of 2 per year

AWARDS TO STUDENT MENTEES (since 2021)

1. Dorrian, Evan (2025) Summer Undergraduate Research Fellowship from UNF College of Arts and Sciences. $2,500 stiped plus $1,500 for supplies.
2. Sein, Rebekah (2024-5) Undergraduate Research Scholarship and Creative Activities award. $1,500 stipend plus $500 for supplies.
3. Husein, Hayat (2024) Summer Undergraduate Research Fellowship from UNF College of Arts and Sciences. $2,500 stiped plus $1,500 for supplies.

1. Peters, Haley (2023-4) Undergraduate Research Scholarship and Creative Activities award. $1,500 stipend plus $500 for supplies.
2. Kordek, Emma (2024) Graduate student summer funding. To assist in completion of thesis. $2,500.
3. Kordek, Emma (2023). Graduate school award for travel to present research at Society for Integrative and Comparative Biology. $500
4. Peters, Haley (2023). Conference presentation award from UNF Office of Undergraduate Research. To present research at Society for Integrative and Comparative Biology. $500
5. Peters, Haley (2022-3) Undergraduate Research Scholarship and Creative Activities award. $1,500 stipend plus $500 for supplies.
6. Strasser, Nicholas (2023). Conference presentation award from UNF Office of Undergraduate Research. To present research at Society for Integrative and Comparative Biology. $500
7. Strasser, Nicholas (2022-3) Transformational Learning Opportunity award from UNF Office of Undergraduate Research. $1,000 for supplies.
8. Clark, Connor (2022-3) Transformational Learning Opportunity award from UNF Office of Undergraduate Research. $1,000 for supplies.

TEACHING EXPERIENCE

**Univ. of North Florida (typical load is 2 lecture preps and 1 lab section per semester)**

1. Animal Physiology (6 times), lecture with ~35 students
2. Animal Physiology lab (4 times), ~20 students
3. Human Physiology (7 times), lecture with ~30 students
4. Human Physiology lab (3 times) ~20 students
5. Biology of Aging (5 times), lecture with ~20 students
6. Physiology (5 times), lecture with ~40 students
7. Physiology lab (5 times), ~20 students
8. General Biology 3 (i.e., Intro Zoology) (>10 times), lecture with ~100 students
9. General Biology 3 lab (>5 times), ~24 students
10. Human Anatomy & Physiology II (>10 times), lecture with ~100 students
11. Human Anatomy & Physiology II lab (>5 times), ~20 students
12. Senior Seminar in Biology (4 times), ~40 students
13. Environmental Physiology (3 times), lab and discussion with <10 students
14. Human Anatomy & Physiology I (3 times), lecture with ~150 students
15. Current Applications in Biology–Aging (3 times), ~25 students
16. Principles of Biology lab (2 times), ~24 students

**Research Students and their statuses**

Master of Science Students (9 over 21 years)

* + - * 1. Raime Fronstin – wildlife biologist for NPS
        2. Michelle Drewry – teaching biology on military camps
        3. Alycia Macdonald – unknown
        4. Alicia Tetlak – lab manager in industry
        5. Name redacted – unable to work due to illness
        6. Matthew Heck – former lab technician and Mayo Clinic
        7. Emma Kordek - high school biology teacher
        8. Eleanor Cronin - on the job market
        9. Kerri Conklin - Visiting Instructor of Biology at UNF

Undergraduates at UNF from past 10 years (75 over 21 years)

1. Justin Nicholas - BS from UNF; Biomedicine PhD from Univ South FL; now in industry
2. Ayesha Awan - BS from UNF; PhD program at North Carolina State Univ
3. Jett MacPherson - BS from UNF: MD from Marshall University
4. (Davis) Max Beard - BS from UNF; medical student American Univ of the Caribbean
5. Ryan Koch - BS from UNF; taught middle school science
6. Ynden Lizardo - BS from UNF; nursing school
7. Gjulia (Julie) Vokrri - BS from UNF; MD from St. George’s University
8. Tim Kelting - unknown
9. Hugh Lomas - BS from UNF; working in computing
10. Madison Hembrock - BS from UNF; Pharmacist
11. Amra Karjasevic - BS from UNF; PA program at Drexel Univ.
12. Jillian Eisenhauer - BS from UNF; worked at Mayo Clinic; PhD program at Univ Penn
13. Lauren Milano - BS from UNF; interned at city medical examiner’s office; industry
14. Sophia Nagle - post-bac in my lab; MS from another lab at UNF; lab technician at NIH
15. Stephenie Dilts - BS in Nutrition from UNF; MS in Dietetics from UNF
16. Raphaela Macanas - BS from UNF; lab technician at state Dept of Health
17. Hannah Ernstsen - left UNF; works at Made in Space
18. Sahil Patel - BS from UNF; last known: applying to medical schools
19. Eugene Rehfeldt - BS from UNF; medical school at Univ. of Guadalajara
20. Danielle Hiatt - BS from UNF; Pharmacy benefits case manager
21. Sarah Morningstar - BS from UNF; Physician Assistant program at Bethel University
22. Victoriya Maslikova - BS from UNF in Chemistry; unknown
23. Brooke Reams - BS from UNF; animal care technician
24. Juana Zargon - BS from UNF; high school teacher; now at a local education non-profit
25. Jennifer Scott - post-bac at UNF; left lab upon pandemic
26. Henry Morar - BS from UNF; medical student at Temple University
27. Claire Strickland - BS in Computer Science from UNF; teaching ESL in South Korea
28. Sean Sullivan - MSH in Movement Sci; interned in lab, DO program at Lincoln Memorial
29. Adriana Negron - unknown
30. Emma Kordek - BSE from UNF; MS from Hatle lab; local high school teacher
31. Parker Agne - BS from UNF; medical school at Vanderbilt Univ
32. Nicholas Strasser - BS from UNF; medical school at Washington Univ (St. Louis)
33. Connor Clark - BS from UNF; medical school at Florida State University
34. Juli Arcaro - BS from UNF; VCOM-Auburn College of Osteopathic Medicine
35. Jeremiah Kaplan - post-bac at UNF; Jax Zoo; grad school in ecology at UC-Irvine
36. Gabriel Nealy - BS from UNF; Radiology tech
37. Luke Springer - BS from UNF; ER scribe
38. Maya Makhtin - BS from UNF; unknown
39. Selena Halleak - BS from UNF; retail
40. Amaya Yip - BS from UNF; DO student at Kansas City University
41. Kerri Conklin - BS from UNF; MS graduate from in Hatle lab; visiting instructor at UNF
42. Sarah Andersen - BS from UNF; high school science teacher
43. Haley Peters - BS from UNF; PhD biochemistry program at Univ Florida
44. Alicia Horton - BS from UNF; lab technician in industry
45. Hope Sohn - BS from UNF; pursuing veterinary school
46. Hayat Husein - Pharmacy school
47. Morgan Tomlinson - post-bac student at UNF; applying to MLS programs
48. Rebekah Sein - continuing undergraduate at UNF
49. Natalie Alonzo - continuing undergraduate at UNF
50. Evan Dorrian - continuing undergraduate at UNF
51. **Paisley Daugharty -** continuing undergraduate at UNF
52. **Evangeline Mandell -** continuing undergraduate at UNF

TEACHING AWARDS

**Hatle JD** (2016) Student-produced videos to teach sophomore biology. UNF Academic Affairs Summer Teaching Award. (declined to accept scholarship award).

**Hatle JD** (2008) Development of student designed labs for General Biology 3. UNF Academic Affairs Summer Teaching Award.

**Hatle JD** (2005) Development of Laboratories for Graduate Environmental Physiology (2005) UNF Teaching Grant. $5,000 (declined to accept scholarship award).

DEPARTMENT SERVICE (selected)

Chair or co-chair, Biology Executive Committee (2024-25)

Chair, Biology Space Committee (2005–2012)

I was lead author on a proposal soliciting a new biology building. Within 18 months, this proposal led to UNF placing a new biology building as its first priority for seeking state funds for new buildings, leapfrogging at least a dozen other possible buildings. I was involved in planning for the new building, included discussions on spaces needed, the specifications of these rooms, and regular meetings with the architects and construction management team. The building opened February 2012.

Member of Faculty Search Committees (>10 committees)

I have served on two or three standing committees most years.

Master of Science Committee Memberships

1. Sophia Cochran (in progress) Mitochondrial DNA replication in Parkinson’s
2. Callahan McGovern (2023) Microbes in algae of the Great Lakes
3. Tala Shourbagi Tello (2022) TSACC gene in skeletal muscle
4. Flora Jacobs (2019) Effects of acidification on calcium uptake in shrimp
5. Caleb Hayes (2018) Ttc39c in skeletal muscle atrophy
6. Karina Kakareka (2018) MAFbx in muscle atrophy
7. Olivia Scheffler (2016) Disaccharide transporter in crustacean hepatopancreas
8. Ashley Haddock (2015) Role of Dusp4 in muscle atrophy
9. Ted Olson (2013) Regulation of gene transcription in muscle atrophy
10. Rachael Dailey (2013) Physiological responses to realimentation in seals
11. Tamla Simons (2011-present) Sugar transport in shrimp hepatopancreas
12. Ijeoma Obi (2010) Sugar transport in the intestine of the lobster
13. Alyson Urian (2009) Cold temperature effects on distribution of mussels.
14. Erik Conrad (2005) Metal transport in the lobster intestine.

UNIVERSITY SERVICE (selected)

1. Member of UNF food service committee (2023-present)
2. Member of UNF Calendar committee (2021-2023)
3. Member of the Bee Campus USA committee (2021-present)
4. Chair of University Radiation Safety Committee (2021-present)
5. Member of Presidential Professor selection committee (2018 and 2019)
6. Chair of Nominations and Elections for United Faculty of Florida UNF chapter (2017-2021). Ran an average of 4 campus-wide elections per year.
7. Member of University Promotion & Tenure committee (2015-2016)
8. Member of United Faculty of Florida UNF chapter bargaining team (2014-2017)
9. Secretary of United Faculty of Florida, UNF chapter (2014-2016)
10. Chair of UNF’s Institutional Animal Care and Use Committee (2010-2014)
11. Chair of UNF-UFF’s membership committee (2010-2012)
12. Member of University Building Planning Committee (2009-2011)
13. Member of Undergraduate Research Advisory Committee (2007–2010)
14. Member of University Radiation Safety Committee (2004–2021)
15. Member of Institutional Animal Care and Use Committee (2004–2006)

EXTERNAL SERVICE (selected)

Mentor for faculty member from underrepresented minority in science. NIH’s Idea Networks for Biomedical Research Excellence (2013-2017)

Graduate Committee Memberships

1. Clancy Short PhD at University of Florida (in progress) Role of nutrition in insect diapause
2. Clancy Short at University of Florida (2020) Storage protein LSP-2 in timing of reproduction in male fruit flies
3. Kevin Malod (external reader for PhD at Univ of Pretoria) Macronutrient intake on lifespan and fecundity in the marula fruit fly

Reviews of grant proposals

National Science Foundation external reviewer (2025), 1 proposal

National Science Foundation external reviewer (2023), 1 proposal

Israeli Science Foundation external reviewer (2019), 1 proposal

National Science Foundation external reviewer (2018), 2 proposals

National Science Foundation external reviewer (2017), 1 proposal

National Science Foundation panel member (2015), 12 full proposals

National Science Foundation external reviewer (2014), 1 proposal

Binational Science Foundation (NSF and Israeli Science Foundation joint program), physiology panel member (2013?), 8 proposals

National Science Foundation panel member (2012), 19 pre-proposals

Reviews of research articles

Journal of Insect Physiology (2025), 1 manuscript

Ecological and Evolutionary Physiology (2024), 1 manuscript

Current Research in Insect Science (2023), 1 manuscript

Journal of Insect Physiology (2023), 1 manuscript

Insects (2022), 1 manuscript

Biology (2022), 1 manuscript

BioGerontology (2021), 1 manuscript

Journal of Insect Physiology (2021), 1 manuscript

Physiological Entomology (2020), 1 manuscript

Journal of Insect Physiology (2020), 1 manuscript

Journal of Gerontology (2018), 1 manuscript

Journal of Insect Physiology (2018), 1 manuscript

Insect Molecular Biology (2018), 1 manuscript

International Journal of Molecular Science (2015), 1 manuscript

Entomological Research (2015), 1 manuscript

Proceedings of the National Academy of Science (2014), 1 manuscript

PLoS ONE (2014), 1 manuscript

Journal of Insect Physiology (2014), 1 manuscript

Aging Cell (2013), 1 manuscript

Journal of Insect Physiology (2013), 1 manuscript

Journal of Evolutionary Biology (2013), 1 manuscript

Functional Ecology (2012), 1 manuscript

Naturwissenschaften (2012), 1 manuscript

PROFESSIONAL SOCIETIES

American Aging Association

Society for Integrative and Comparative Biology