

## **Christopher A. Myrick**

Department of Fish, Wildlife, and Conservation Biology  
Colorado State University  
Fort Collins, CO 80523-1474

Warner College of Natural Resources  
Colorado State University  
Fort Collins, CO 80523

### **Education**

Ph.D., 1998, Ecology (emphasis in fish physiological ecology), University of California – Davis  
M.S. 1996, Ecology (emphasis in fish physiological ecology), University of California – Davis  
B.S. 1992, Resource Management (emphasis in fishery mgt.), University of California – Berkeley

### **Positions**

Research Associate Dean, Warner College of Natural Resources, 2024 – present  
Professor, Department of Fish, Wildlife, and Conservation Biology, Colorado State University, 2014 – present  
Director, Foothills Fisheries Laboratory, Colorado State University, 2002 – present  
Chair, Colorado State University Institutional Animal Care and Use Committee, 2020 – present.  
Chair, Western Regional Aquaculture Center Board of Directors, 2022 – present.  
Associate Professor, Department of Fish, Wildlife, and Conservation Biology, Colorado State University, 2006 – 2014  
Associate Chair, Colorado State University Institutional Animal Care and Use Committee, 2008 – 2015, 2016 – 2018, 2019 – 2020.  
Chair of the Fisheries and Aquatic Science Concentration, Fish, Wildlife, and Conservation Biology Major, Colorado State University, 2007 – 2011  
Assistant Professor, Dept. of Fishery & Wildlife Biology, Colorado State University, 2000 – 2006  
Aquaculture and Fisheries Extension Specialist, Colorado State University Cooperative Extension Service, 2000 – 2003  
Postdoctoral Research Associate, Department of Wildlife, Fish, and Conservation Biology, University of California – Davis, 1998 – 2000

### **Awards**

Fellow – CSU Faculty Institute for Inclusive Excellence: 2024  
Nominated for Best Teacher Award – CSU Alumni Association: 2024, 2017  
Canadian Journal of Fisheries and Aquatic Sciences Editor's Choice Award: 2022

Warner College of Natural Resources Outstanding Mentorship Award: 2021  
CSU Water Center Faculty Fellow: 2018 - 2019  
Colorado-Wyoming Chapter Outstanding Mentor Award: 2015  
Harry E. Troxell Distinguished Service to Students Faculty Award: 2012  
Best Paper – Colorado Wyoming Chapter of the American Fisheries Society: 2008  
Warner Distinguished Teacher/Advisor Award: 2008  
Certificate of Appreciation – American Fisheries Society, Education Section: 2007

### Publications

- Mabey, C. H., W. M. Sealey, C. A. Myrick, and M. S. Powell. in press. Dietary lysine requirement for juvenile Snake River Cutthroat Trout (*Oncorhynchus clarkii behnkei*). North American Journal of Aquaculture.
- Farrell, C. J., B. M. Johnson, A. G. Hansen, B. W. Avila, and C. A. Myrick. 2025. Induced sterility illuminates the effects of reproduction on growth. Canadian Journal of Fisheries and Aquatic Sciences 82:1-13.
- Oliver, L. P., C. A. Myrick, G. Fornshell, and K. D. Cain. 2024. Life History and Aquaculture Methods for Burbot (*Lota lota*). Reviews in Fisheries Science & Aquaculture 32(2):369-386.
- Farrell, C. J., A. G. Hansen, M. M. Brandt, C. A. Myrick, and B. M. Johnson. 2024. An evaluation of the relative size, condition, and survival of triploid walleye in the wild. North American Journal of Fisheries Management 44(1):172-188.
- Swarr, T. R., R. M. Fitzpatrick, and C. A. Myrick. 2023. Design, construction, and preliminary hydraulic evaluation of a model rock ramp fishway. North American Journal of Fisheries Management 43(4):935-946.
- Farrell, C. J., B. M. Johnson, A. G. Hansen, C. A. Myrick, E. C. Anderson, T. A. Delomas, A. Schreier, D., and J. P. Van Eenenaam. 2022. Cytological and molecular approaches for ploidy determination: results from a wild walleye population. North American Journal of Fisheries Management.
- Rogers, K. B., B. J. Sucher, B. W. Hodge, and C. A. Myrick. 2022. Thermal tolerance of Cutthroat Trout of the southern Rocky Mountains. Canadian Journal of Fisheries and Aquatic Sciences 79:2043-2055.
- Farrell, C. J., B. M. Johnson, A. G. Hansen, and C. A. Myrick. 2022. Induced triploidy reduces mercury bioaccumulation in a piscivorous fish. Canadian Journal of Fisheries and Aquatic Sciences 79(2):200-212.
- Vaage, B., and C. A. Myrick. 2022. Growth, metabolism, and dissolved oxygen tolerance of juvenile Burbot. Aquaculture 552:737980.
- Swarr, T. R., C. A. Myrick, and R. M. Fitzpatrick. 2021. PIT tag retention, survival, and effects on swimming performance in a small-bodied fish, the Arkansas darter (*Etheostoma cragini*). Journal of Fish Biology.
- Vaage, B., and C. Myrick. 2021. The effects of acute and chronic exposure of ammonia on juvenile burbot (*Lota lota*) growth and survival. Aquaculture 542:736891.
- Cramp, R. L., E. Rodgers, C. Myrick, J. Sakker, and C. E. Franklin. 2021. Using physiological tools to unlock barriers to fish passage in freshwater ecosystems. C. L. Madliger, C. E. Franklin, O. P. Love, and S. J. Cooke, editors. Conservation physiology: applications for wildlife conservation

- and management. Oxford University Press, Oxford, United Kingdom.
- Fornshell, G., C. A. Myrick, M. Powell, and W. M. Sealey. 2020. Feeds for the production of market-sized cutthroat trout. Western Regional Aquaculture Center - National Institute of Food and Agriculture, US Department of Agriculture, Seattle, WA.
- Myrick, C. A. 2020. Addressing non-salmonid fish passage in semi-arid regions: converging paths, continents apart. *Colorado Water* 37(1):15 - 18.
- Happel, A., W. M. Sealey, C. A. Myrick, and M. S. Powell. 2020. Effects of varying dietary levels of digestible protein and digestible energy on growth performance in juvenile Yellowstone Cutthroat Trout (*Oncorhynchus clarkii bouvieri*). *Aquaculture Reports* 17:1-7.
- Sinicrope Talley, T., N. Venuti, R. Starr, and C. A. Myrick. 2018. Evaluation of a White Seabass (*Atractoscion nobilis*) enhancement program in California. Pages 141-158 in *Wildlife Management - Failures, Successes and Prospects*. IntechOpen, London, UK.
- Mora, D. S. O., M. D. Salman, C. A. Myrick, J. C. Rhyan, L. W. Miller, E. M. Sætre, and D. C. Eckery. 2017. Evaluation of antibody response to an adjuvanted hapten-protein vaccine as a potential inhibitor of sexual maturation for farmed Atlantic salmon. *fish and Shellfish Immunology* 71:255-263.
- Owens, C. E., W. M. Sealey, Z. B. Conley, G. Fornshell, and C. A. Myrick. 2017. Evaluating dietary impacts of commercial-type diets on the growth of Snake River cutthroat trout (*Oncorhynchus clarkii behnkei*). *Aquaculture* 480:77-82.
- Gaylord, T. G., W. M. Sealey, F. T. Barrows, C. A. Myrick, and G. Fornshell. 2017. Evaluation of ingredient combinations from differing origins (fishmeal, terrestrial animal and plants) and two different formulated nutrient targets on rainbow trout growth and production efficiency. *Aquaculture Nutrition* 23(6):1319-1328.
- California Sea Grant<sup>1</sup>. 2017. Evaluation of the Ocean Resources Enhancement and Hatchery Program. Report submitted to California Department of Fish and wildlife, Project no. P1470005, CASG-17-010, San Diego, CA.
- Swarr, T. R., and C. A. Myrick. 2016. Fish passage on the Front Range: research and application of fishways to improve habitat connectivity for fish. *Colorado Water* 33(4):24-25.
- Kaemingk, M., R. Essig, S. L. McMullin, C. Bonds, R. DeBruyne, C. Myrick, Q. Phelps, T. Sutton, and J. Triplett. 2016. Examining the relevancy and utility of the American Fisheries Society professional certification program to prepare future fisheries professionals. *Fisheries* 41(8):458-461.
- McMullin, S. L., V. DiCenzo, R. Essig, C. Bonds, R. DeBruyne, M. Kaemingk, M. Mather, C. Myrick, Q. Phelps, T. Sutton, and J. Triplett. 2016. Are we preparing the next generation of fisheries professionals to succeed in their careers? *Fisheries* 41(8):436-449.
- Craft, C. D., C. Ross, W. M. Sealey, T. G. Gaylord, F. T. Barrows, G. Fornshell, and C. A. Myrick. 2016. Growth, proximate composition, and sensory characteristics of rainbow trout *Oncorhynchus mykiss* consuming alternative proteins. *Aquaculture*:223-231.
- Fox, B., B. P. Bledsoe, E. Kolden, M. C. Kondratieff, and C. A. Myrick. 2016. Eco-hydraulic evaluation of whitewater parks as fish passage barriers. *Journal of the American Water Resources Association* 52(2): 420-442.
- Ham, B. R., C. A. Myrick, F. T. Barrows, C. J. Yeoman, G. C. Duff, M. G. Maskill, and W. M. Sealey. 2015. Feed characteristics alter growth efficiency of cutthroat trout. *Journal of Fish and Wildlife Management* 6(1):83-91.

---

<sup>1</sup> Authors of the report were. Sinicrope-Talley, T., Venuti, N., Starr, R. (CASG) and the Science Advisory Committee (Cain, K., Hauser, L., Leber, K., Sutula, M., Teufel, C., Valle, C., Vega, R., and Weaver, D.), chaired by C. A. Myrick

- McMullin, S. L., V. DiCenzo, R. Essig, C. Bonds, R. DeBruyne, M. Kaemingk, M. Mather, C. Myrick, Q. Phelps, T. Sutton, and J. Triplett. in press. Are we preparing the next generation of fisheries professionals to succeed in their careers? *Fisheries*.
- Stapanian, M. A., and C. A. Myrick. 2015. Ecology, culture, and management of Burbot: an introduction. *Hydrobiologia* 757(1):1-2.
- Herdrich, A. T., and C. A. Myrick. 2014. Critical thermal maximum of 20°C-acclimated adult stonecats *Noturus flavus*. *Prairie Naturalist* 46(2):101-103.
- Underwood, Z. E., C. A. Myrick, and R. I. Compton. 2014. Comparative swimming performance of five *Catostomus* species and Roundtail chub. *North American Journal of Fisheries Management* 34(4):753-763.
- Handelsman, C. A., E. D. Broder, C. M. Dalton, E. W. Ruell, C. A. Myrick, D. N. Reznick, and C. K. Ghalambor. 2013. Predator-induced phenotypic plasticity in metabolism and rate of growth: rapid adaptation to a novel environment. *Integrative and Comparative Biology*:1-14.
- Myrick, C. A., Z. E. Underwood, and K.-D. Kinzli. 2013. Supporting undergraduate education with realistic laboratory exercises and research experience. *Fisheries* 38(4):160-168.
- Gardunio, E. I., and C. A. Myrick. 2012. Survival and retention rates for burbot (*Lota lota*) following surgical implantation of passive integrated transponders. *North American Journal of Fisheries Management* 32(5):1000-1004.
- Hoyer, S. A., and C. A. Myrick. 2012. Can copper-based substrates be used to protect hatcheries from invasion by the New Zealand mudsnail? *North American Journal of Aquaculture* 74(4):575-583.
- Underwood, Z. E., C. A. Myrick, and K. B. Rogers. 2012. Effect of acclimation temperature on the upper thermal tolerance of Colorado River cutthroat trout *Oncorhynchus clarkii pleuriticus* (Richardson). *Journal of Fish Biology* 80(7):2420-2433.
- Lepak, J. M., K. D. Kinzli, E. R. Fetherman, W. M. Pate, A. G. Hansen, E. I. Gardunio, C. N. Cathcart, W. L. Stacy, Z. E. Underwood, M. M. Brandt, C. A. Myrick, and B. M. Johnson. 2012. Manipulation of sport fish growth to reduce mercury bioaccumulation on a whole-system scale. *Canadian Journal of Fisheries and Aquatic Sciences* 69(1):122-135.
- Ficke, A. D., M. C. Kondratieff, and C. A. Myrick. 2012. The effects of PIT tagging on the swimming performance and survival of three nonsalmonid freshwater fishes. *Ecological Engineering* 48(2012):86-91.
- Ficke, A. D., C. A. Myrick, and N. Jud. 2011. The swimming and jumping ability of three small Great Plains fishes: implications for fishway design. *Transactions of the American Fisheries Society* 140(6):1521-1531.
- Fetherman, E. R., D. L. Winkelman, G. J. Schisler, and C. A. Myrick. 2011. The effects of *Myxobolus cerebralis* on the physiological performance of whirling disease resistant and susceptible strains of rainbow trout (*Oncorhynchus mykiss*). *Journal of Aquatic Animal Health* 23(4): 169-177.
- Myrick, C. A. 2011. Physiology of fish in culture environments. Pages 2084 – 2090 in A. P. Farrell, J. J. Cech, Jr., J. Richards, and D. E. Stevens, editors. *Encyclopedia of fish physiology: from genome to environment.*, volume 3. Academic Press, San Diego.
- Gardunio, E. I., C. A. Myrick, R. A. Ridenour, R. M. Keith, and C. J. Amadio. 2011. Invasion of illegally introduced burbot in the Upper Colorado River basin. *Journal of Applied Ichthyology* 27 (Supplement 1): 36 – 42.
- Myrick, C. A., and S. K. Conlin. 2011. Do copper-based compounds restrict the movement of New Zealand mudsnails? *North American Journal of Aquaculture* 73: 327 – 331.

- Monirian, J. R., Z. A. Sutphin, and C. A. Myrick. 2010. Effects of acclimation temperature and handling stress on the upper thermal tolerance of threadfin shad. *Journal of Fish Biology* 76(6): 1329-1342.
- Kinzli, K.-D., and C. A. Myrick. 2010. Bendway weirs: would they create habitat for the endangered Rio Grande silvery minnow. *River Research and Applications* 26(7): 806-822.
- Myrick, C. A. 2009. A low-cost system for capturing and analyzing the motion of aquatic organisms. *Journal of the North American Benthological Society* 28(1):101-109.
- Kindschi, G. A., C. A. Myrick, F. T. Barrows, M. Toner, W. C. Fraser, J. Ilgen, and L. Beck 2009. Performance of Yellowstone and Snake River cutthroat trout fry fed seven different diets. *North American Journal of Aquaculture* 71(4):325-329.
- Ficke, A. D., and C. A. Myrick. 2009. A method for monitoring movements of small fishes in urban streams. *North American Journal of Fisheries Management* 29(5):1444-1453.
- Deisenroth, D., C. Bond, S. Davies, J. Loomis, A. Seidl, A. Davies, C. Myrick, K. Fitzsimmons, G. Fornshell, F. Conte, and J. Boren. 2009. Economic contributions of the aquacultural suppliers of recreational fish in the western US. *Journal of Agricultural and Resource Economics* 34(3):540-541.
- National Research Council<sup>2</sup>. 2007. Hydrology, ecology, and fishes of the Klamath River basin. The National Academies Press, Washington, DC.
- Sutphin, Z. A., C. A. Myrick, and M. M. Brandt. 2007. Swimming performance of Sacramento splittail injected with subcutaneous marking agents. *North American Journal of Fisheries Management* 27(4):1378-1382.
- Ficke, A. D., C. A. Myrick, and L. J. Hansen. 2007. Potential impacts of global climate change on freshwater fisheries. *Reviews in Fish Biology and Fisheries* 17(4):581-613.
- Kondratieff, M. C., and C. A. Myrick. 2006. How high can brook trout jump? A laboratory evaluation of brook trout jumping performance. *Transactions of the American Fisheries Society* 135(2):361-370.
- Myrick, C. A., and J. J. Cech, Jr. 2005. Effects of temperature on the growth, food consumption and thermal tolerance of age-0 Nimbus-strain steelhead. *North American Journal of Aquaculture* 67(4): 324-330.
- Brandt, M. M., J. P. Holloway, C. A. Myrick, and M. C. Kondratieff. 2005. Effects of waterfall dimensions and light intensity on age-0 brook trout jumping performance. *Transactions of the American Fisheries Society* 134(2):496-502.
- Kondratieff, M. C., and C. A. Myrick. 2005. Two adjustable waterfalls for evaluating fish jumping performance. *Transactions of the American Fisheries Society* 134(2):503-508.
- Myrick, C. A., and J. J. Cech, Jr. 2004. Temperature effects on juvenile salmonids in California's central valley: what don't we know? *Reviews in Fish Biology and Fisheries* 14(1):113-123.
- Myrick, C. A., D. K. Folgner, and J. J. Cech, Jr. 2004. An annular chamber for aquatic animal preference studies. *Transactions of the American Fisheries Society* 133:426-432.
- Myrick, C. A., and J. J. Cech. 2003. The physiological performance of golden trout at water temperatures of 10 - 19°C. *California Fish and Game* 89(1):20-29.
- Myrick, C. A. 2002. Ecological impacts of escaped organisms. Pages 225-245 in J. R. Tomasso, editor. *Aquaculture and the environment in the United States*. United States Aquaculture Society/World Aquaculture Society, Baton Rouge, LA, USA.

---

<sup>2</sup> I was one of the members of the National Research Council committee that prepared this report in the form of a book.

- Myrick, C. A., and J. J. Cech, Jr. 2002. Growth of American River fall-run chinook salmon in California's Central Valley: Temperature and ration effects. *California Fish and Game* 88(1):35–44.
- Myrick, C. A., and J. J. Cech. 2000. Swimming performances of four California stream fishes: temperature effects. *Environmental Biology of Fishes* 58(3):289–295.
- Myrick, C. A., and J. J. Cech, Jr. 2000. Temperature influences on California rainbow trout physiological performance. *Fish Physiology and Biochemistry* 22(3):245-254.
- Magee, A., C. A. Myrick, and J. J. Cech, Jr. 1999. Thermal preference of female threespine sticklebacks under fed and food-deprived conditions. *California Fish and Game* 85(3):102-112.
- Light, T., D. C. Erman, C. A. Myrick, and J. Clarke. 1995. Decline of the Shasta crayfish (*Pacifastacus fortis* Faxon) of northeastern California. *Conservation Biology* 9(6):1567 - 1577.

### **Grants and Contracts (2000 – 2025)**

- 2024 – 2025 An undergraduate-driven exploration of vertical-slot fishways for Front Range fishes. *CSU Water Center*. \$24,991
- 2024 – 2026 Technical evaluation of fish barriers, design parameters, and riverscape considerations for effective management of native fisheries. *USDA Forest Service*. \$70,000. (co-PI with Y. Kanno)
- 2023 – 2024 Seasonal abundance, population structure, and diet of long-nosed bats in southwestern New Mexico in relation to contemporaneous food availability. *Bureau of Land Management - New Mexico*. \$35,000<sup>3</sup>
- 2023 Colorado walleye research extensions. *Colorado Parks and Wildlife*. \$69,765.
- 2021 – 2023 Swimming and jumping abilities of Wyoming Great Plains fishes. *Wyoming Game and Fish Department*. \$192,829.
- 2021 – 2025 Developing rock ramp fishway design parameters for fish species of conservation concern. *US fish and Wildlife Service*. \$222,554.
- 2020 – 2021 Effects of light level and surface roughness on the passage success of plains fishes in rock ramp fishways: supplement. *U.S. Fish and Wildlife Service*. \$27,065.
- 2020 – 2022 Long-term protection of Western Slope native fishes. *Colorado Parks and Wildlife*. \$180,262. Co-PI with Dr. Brett Johnson.
- 2018 – 2021 Native fish passage in Front Range transition zone streams. *Colorado Division of Parks and Wildlife*. \$68,147.
- 2018 – 2020 Evaluating thermal tolerance in Colorado's native Cutthroat Trout. *Colorado Division of Parks and Wildlife*. \$14,274.
- 2018 – 2020 Triploid Walleye: A new frontier for managing cool water predators in the West. *Colorado Division of Parks and Wildlife*. \$78,471. Co-PI with Dr. Brett Johnson.

---

<sup>3</sup> I am serving as the PI of record for this project because the PI who is advising a graduate student, Dr. Kathryn Stoner, has moved to the University of Arizona. She is still the primary PI on the project.

- 2018 – 2019 13<sup>th</sup> International Congress on the Biology of Fish – Student Travel Grants. *National Science Foundation*. \$15,000.
- 2018 – 2021 Effects of light level and surface roughness on the passage success of plains fishes in rock ramp fishways. *U.S. Fish and Wildlife Service*, \$210,236.
- 2017 – 2021 Developing “freshwater cod” or burbot (*Lota lota*) into a viable commercial aquaculture species in the United States. *Western Regional Aquaculture Center*, \$412,164.
- 2016 – 2019 Thermal constraints on the early life history of sauger. *Wyoming Game and Fish*, \$157,551
- 2016 – 2019 Biotic and abiotic factors that influence selenium bioaccumulation and food chain transfer in aquatic ecosystems. *Colorado Parks and Wildlife* \$126,686. Co-PI with Dr. Will Clements.
- 2013 – 2016 Improving rock ramp fishways for small-bodied plains fishes. *Great Plains Landscape Conservation Cooperative*, \$271,169.
- 2012 – 2013 Investigation of the effects of whitewater parks on aquatic resources in Colorado. *Colorado Parks in Colorado*, \$68,697.
- 2014 – 2018 If you feed them, will they grow: A dietary approach to improving the growth rates of juvenile cutthroat trout. *USDA Western Regional Aquaculture*. Lead PI with M. Powell (University of Idaho), B. Patro (University of Idaho), W. Sealey (U.S.F.W.S.), J. Liley (Liley Fisheries) and G. Fornshell (University of Idaho) as co-principal investigators. \$357,391 (CSU Share: \$117,080). Award noticed received 12/12.
- 2011 – 2013 Investigation of the effects of whitewater parks on aquatic resources in Colorado. *Colorado Division of Parks and Wildlife*. \$114,000.
- 2011 – 2012 Development of barriers and passage requirements for native and nonnative fishes in the Green River system – Phase II. *Wyoming Game and Fish Department*. \$103,600
- 2010 – 2011 Development of barriers and passage requirements for native and nonnative fishes in the Green River system. *Wyoming Game and Fish Department*. \$24,000.
- 2009 – 2010 Flathead chub swimming performance. *Colorado Springs Utilities*. \$10,000
- 2009 – 2011 Potential zebra and quagga mussel control studies: evaluation of spawning protocols and current disinfection techniques. *Colorado Division of Wildlife*. \$127,000.
- 2009 – 2011 Designing barriers to the upstream movement of burbot and white suckers in the Upper Colorado River drainage. *U.S. Bureau of Reclamation*. \$83,604.
- 2009 – 2013 Cost-effective, alternative protein diets for rainbow trout that support optimal growth, health and product quality. *Western Regional Aquaculture Center*. Funded for \$394,728; CSU share is \$108,762. Co-PI with W. Sealey (U.S. Fish and Wildlife service), C. Ross (Washington State University), T. G. Gaylord (U.S. Fish and Wildlife Service), F. T. Barrows (U.S.D.A.), and G. Fornshell (University of Idaho).
- 2008 – 2009 Evaluation and development of fish passage designs. *Colorado Department of Natural Resources - Division of Wildlife*. \$150,000
- 2008 – 2009 Adding recirculating aquaculture to the Fish, Wildlife, and Conservation Biology curriculum. *Warner College of Natural Resources*. \$9,076.

- 2007 – 2009 Further investigations on the use of copper-based surface treatments to control the upstream movement of New Zealand mudsnails. *U.S. Department of Interior - Fish and Wildlife Service*. \$43,767
- 2006 – 2009 Updating the US Bureau of Reclamation’s Tracy Fish Collection Facility “Bates Tables”: a literature and laboratory study of appropriate loading and hauling conditions for delta fishes. *U.S. Bureau of Reclamation*. \$145,778
- 2006 – 2007 A pilot project testing the use of copper and copper-based compounds to prevent the upstream movement of New Zealand mudsnails. *US Fish and Wildlife Service*. \$20,454
- 2005 – 2009 Development and evaluation of starter diets and culture conditions for three subspecies of cutthroat trout and Gila trout. *Western Regional Aquaculture Center*. \$382,788
- 2004 – 2006 Temperature effects on Trinity River spring-run Chinook salmon metabolism and thermal tolerance. *North State Resources, Inc. & Trinity River Restoration Program*. \$88,063
- 2004 – 2006 Measuring and mitigating the impacts of instream drop-structures on fishes from Colorado's eastern plains. *Colorado Division of Wildlife*, \$96,758
- 2003 – 2004 Potential impacts of global climate change on freshwater fisheries. *World Wildlife Fund*, \$38,000.
- 2002 – 2003 A field and theoretical evaluation of a barrier to the upstream migration of brook trout in Rocky Mountain National Park. *National Park Service Colorado Plateau Cooperative Ecosystem Studies Unit Program*, \$15,000.
- 2001 – 2002 Modeling the effectiveness of waterfall-type barriers to upstream movement of brook charr (*Salvelinus fontinalis*). *US Forest Service Rocky Mountain Research Station*, \$10,000.
- 2000 – 2001 Regional Variation in the Environmental Tolerances and Preferences of the Brassy Minnow (*Hybognathus hankinsoni*). *Colorado Division of Wildlife*, \$5,000.

### **Graduate and Undergraduate Mentoring**

#### *Graduate advisees*

Current: 0 M.S., 0 Ph.D.      Completed: 22 M.S., 2 Ph.D.

#### *Graduate committee membership*

Current: 2 M.S., 0 Ph.D.      Completed: 26 M.S., 10 Ph.D.

#### *Undergraduate mentorship – independent study and/or group study projects*

Current: 10      Completed: 104

### **Outreach and Service**

### **COMMITTEES**

#### **University Committee, year(s)**

2024 – present	CSU technical representative for the Great Plains Cooperative Ecosystem Studies Unit
2024 – present	CSU technical representative for the Colorado Plateau Cooperative Ecosystem Studies Unit
2024 – present	CSU technical representative for the Rocky Mountain Cooperative Ecosystem Studies Unit
2024 – present	Council of Research Associate Deans
2024 – present	Physical Development Committee
2023	Search committee member for the assistant IACUC coordinator (CSU VPR)
2022	Search committee member for the Senior IACUC Administrator (CSU VPR)
2020 – present	Chair of the Colorado State University Institutional Animal Care and Use Committee
2020 – present	Advisory committee for the Franklin A. Graybill Statistical Laboratory
2019 – present	Executive Committee Member – Graduate Center for Inclusive Mentoring (GCIM)
2011 – present	WCNR representative of the steering committee for the Center for Undergraduate Creativity and Research
2019 – 2020	Associate Chair of the Colorado State University Institutional Animal Care and Use Committee
2016 – 2018	Associate Chair of the Colorado State University Institutional Animal Care and Use Committee
2008 – 2015	Associate Chair of the Colorado State University Institutional Animal Care and Use Committee
2006 – 2008	Full member of the Colorado State University Institutional Animal Care and Use Committee
2000 – 2006	Alternate member of the Colorado State University Animal Care and Use Committee
2004	Search Committee for the Associate Director of the Regulatory Compliance Office
2003	Search Committee for the Associate Director of Laboratory Animal Resources
2000 – 2010	Martin Luther King, Jr. Scholarship Committee

#### **College Committee, year(s)**

2001 - 2007	Computer Committee
2000	Integrated Resource Management Faculty Working Group

#### **Department Committee, year(s)**

2024 – 2025	Search committee for the lake/reservoir fisheries ecologist assistant professor
2023 – 2023	Member, Mentoring and Reappointment Committee

2023 – 2024	Search committee for the Department Head, Department of Fish, Wildlife, and Conservation Biology
2021 – 2022	Search committee for the Human-Wildlife Conflict/Coexistence researcher
2017 – 2018	Search committee for the Department Head, Department of Fish, Wildlife, and Conservation Biology
2016	Search committee for the Stream Fish Conservation Ecologist
2016 – 2018	Member, Mentoring and Reappointment Committee
2007 – 2008	Departmental Assessment Committee, co-chair w/Dr. W. Andelt
2007 – 2011	<i>defacto</i> Chair of the Fishery and Aquatic Sciences Concentration
2003 – 2007	Curriculum Committee (Fishery Biology major representative)
2000	Search Committee for the Human Resources teaching postdoctoral position

### **Professional Affiliations and Activities**

2022 – Present	Western Regional Aquaculture Center Board of Directors – Board Chair
2022 – 2024	Past-president of the Physiology Section of the American Fisheries Society
2019	Reviewer of California Sea Grant aquaculture proposals
2018 – 2022	President of the Physiology Section of the American Fisheries Society
2016 – 2018	President-elect & Chair of Student Travel Award Committee – Physiology Section of the American Fisheries Society
2014 – Present	Western Regional Aquaculture Center Board of Directors – Colorado Representative
2000 – 2014	Western Regional Aquaculture Center Technical Advisory Committee – Research Subcommittee (chair 2012 – 2014)
2004	National Science Foundation
2004	Middle Rio Grande Endangered Species Act Collaborative Program Science Subcommittee
2003 – 2006	California Bay-Delta Authority (CalFed Program)
2011	Great Lakes Fishery Commission

### **Review/editorial boards**

Ocean Resource Hatchery Enhancement Program – California: Chair of Science Advisory Committee.

Natural Sciences and Engineering Research Council of Canada grant review site visit panel member.

National Academy of Science, National Research Council – Committee on the Hydrology, Ecology, and Fishes of the Klamath River Basin.

State of Colorado – Water Temperature Criteria Technical Advisory Committee

San Joaquin River – Stream Temperature Criteria Review Panel

Stanislaus River – Stream Temperature Criteria Review Panel

US Fish and Wildlife Service – Bull Trout Temperature Criteria Review Panel

Environmental Protection Agency – Stream Temperature Criteria Review Panel

**Professional Societies**

American Fisheries Society: Physiology section – President Elect (2016 – 2018); President 2018 – 2022; Past-President 2022 – 2024; Executive Committee Member: 2024 – present); Education section; Introduced Species section; Bioengineering Section; Colorado-Wyoming Chapter

Colorado Aquaculture Association