

# David Jirsa

## Contact

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## Education

- B.A. University of Texas, Austin, TX 1991 (Biology)
- M.A. University of Texas, Austin, TX 1994 (Marine Science)
  - Thesis: Effects of dietary nutrient density on water quality and growth of red drum, *Sciaenops ocellatus*, in closed systems.

## Positions and Work Experience

- 2017-2019 Medical Recruiter, Integrity Health Care
  - Screen DO's, MD's and Mid-Level providers (NP, PA)'s, conduct interviews
  - Create and maintain client contracts
  - Set up interviews with prospective clients
  - Place employees in positions
- 2003-2016 Research Biologist, Hubbs-SeaWorld Research Institute, San Diego, CA
  - Coordinate and manage several research areas encompassing multiple projects
  - Author successfully funded grant proposals
  - Public speaking at scientific conferences and various organizations
  - Manager of single and multi-year projects with up to \$400K funded per project
  - Conduct and coordinate research in highly skilled research teams with co-researchers, colleagues and co-PI's at other institutions including government and academia
  - Manage, mentor and train technicians, and graduate students
- 1998-2003 Biologist, Hubbs-SeaWorld Research Institute, San Diego, CA
  - Research Coordinator (2000-2003)
    - Advancing knowledge and closed lifecycle production of multiple marine finish species
  - Assistant manager of a production marine fish hatchery
    - Manage 6-12 employees involved in production of up to 250,000 marine fish released annually.
      - Broodstock management and spawning
      - Culture of larval and juvenile stages to tagging and release
      - Live feed production including algae, rotifers and artemia
      - Management of commercial-scale flow through and recirculated aquaculture systems including filtration and sterilization
      - Disease diagnostics and management
      - Management of multiple volunteer-based offshore cage grow out facilities
        - Transport of fish to facilities
        - Maintenance of facilities

- o Coordination of volunteers to care for fish until release
- 1995-1998 Chemist, Sequoia Analytical, Redwood City, CA
- 1989-1994 Research Assistant, University of Texas Marine Science Institute, Port Aransas, TX

### Research Activities

- Research on Larval Marine Finfish (Research Coordinator, 2000-2009)
  - o Spawning and rearing of multiple finfish species from egg to juvenile stage, including white seabass, giant seabass, California halibut, California sheephead, cabazon and boccaccio
  - o Wild capture and conditioning of broodstock for reproduction
- Advancing Marine Finfish in Aquaculture (Project Manager, 2003-2005)
  - o Successful establishment of a captive spawning population of California sheephead and the only successful rearing of the species from egg to juvenile stages to date
- Egg Quality in Marine Fishes (Project Manager 2005-2008)
  - o Management of a graduate student and his MS thesis project evaluating the variation in egg quality over the spawning season for a captive population of white seabass
- Nutrition of Marine Finfish (Research Scientist, 2008-2016)
  - o Author of multiple proposals that were funded by private, state and federal agencies, including those involving graduate students, with the goal of determining the nutritional requirements of multiple species of marine finfish as well as reducing the inclusion of fish-based ingredients in marine finfish diets
  - o Successful management of the funded research projects and graduate students resulting in original research and many articles in peer reviewed journals

### Peer Reviewed Publications

- Buentello, A., Jirsa, D., Barrows, F.T. and Drawbridge, M. 2015. Minimizing fishmeal use in juvenile California yellowtail, *Seriola lalandi*, diets using non-GM soybeans selectively bred for aquafeeds. *Aquaculture* 435: 403-411.
- Jirsa, D., Barrows, F.T., Hardy, R.W. and Drawbridge, M. 2015. Alternative protein blends as a replacement for fish meal in diets for white seabass, *Atractoscion nobilis*. *Aquaculture Nutrition* 21: 861-867.
- Rombenso, A., Trushenski, J., Jirsa, D. and Drawbridge, M. 2015. Successful fish oil sparing in White Seabass feeds using saturated fatty acid-rich soybean oil and 22:6n-3 (DHA) supplementation. *Aquaculture* 488: 176-185.
- Jirsa, D., D.A. Davis, F.T. Barrows, L.A. Roy, and Drawbridge, M. 2014. Response of white seabass to practical diets with varying levels of protein. *North American Journal of Aquaculture* 76: 24-27.
- Jirsa, D., D.A. Davis, G.P. Salze, M. Rhodes, and Drawbridge, M. 2014. Taurine requirement for juvenile white seabass (*Atractoscion nobilis*) fed soy-based diets. *Aquaculture* 422- 423: 36-41.
- Jirsa, D.O., Stuart, K.R., Salze, G.P., Rhodes, M.A., Davis, D.A. and Drawbridge, M.A. 2014. Limiting amino acids in practical diets for California yellowtail, *Seriola lalandi*. *Journal of the World Aquaculture Society*. 45: 681-690.

- Trushenski, J., Rombenso, A., Page, M., Jirsa, D., and Drawbridge, M. 2014. Traditional and fermented soybean meals as ingredients in feeds for white seabass and yellowtail jack. *North American Journal of Aquaculture* 76: 312-322.
- Jirsa, D.O., D.-F. Deng, D.A. Davis, S. Hung, and Drawbridge, M. 2013. The effects of dietary lipid level on heat-shock proteins in white seabass, *Atractoscion nobilis*. *Aquaculture Nutrition* 19: 227-232.
- Jirsa, D., Salze, G.P., Barrows, F.T., Davis, D.A. and Drawbridge, M. 2013. First-limiting amino acids in soybean-based diets for white seabass *Atractoscion nobilis*. *Aquaculture* 414-415: 167-172.
- Trushenski, J., Mulligan, B., Jirsa, D. and Drawbridge, M. 2013. Sparing fish oil with soybean oil in feeds for white seabass: effects of inclusion rate and soybean oil composition. *North American Journal of Aquaculture* 75: 305-315
- Jirsa, D., Davis, A., Stuart, K., and Drawbridge, M. 2011. Development of a practical soy-based diet for California yellowtail, *Seriola lalandi*. *Aquaculture Nutrition* 17: 869-874.
- Jirsa, D.O., Davis, D.A. and Drawbridge, M.A. 2010. Development of a practical soy-based diet for white seabass, *Atractoscion, nobilis*. *North American Journal of Aquaculture* 72: 332-337.
- Jirsa, D., Drawbridge, M., and Stuart, K., 2009. The effects of tank color and light intensity on growth, survival and stress tolerance of white seabass, *Atractoscion nobilis*, larvae. *Journal of the World Aquaculture Society* 40: 702-709.
- Jirsa, D., Drawbridge, M. and Stuart, K. 2007. Spawning of a captive population of California sheephead, *Semicossyphus pulcher*, *Journal of the World Aquaculture Society*. 38: 122-128.
- Jirsa, D.O., Davis, D.A., and C.R. Arnold. 1997. Effects of dietary nutrient density on water quality and growth of red drum, *Sciaenops ocellatus*, in closed systems. *Journal of the World Aquaculture Society* 28: 68-78
- Davis, D.A., Jirsa, D.O., and C.R. Arnold. 1995. Evaluation of soybean proteins as replacements for menhaden fish meal in practical diets for red drum, *Sciaenops ocellatus*. *Journal of the World Aquaculture Society* 26: 48-58.