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**Education**

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| 2000 – 2005 | Ph.D. in Fish Nutrition, University of Stirling, Institute of Aquaculture, Stirling, Scotland, UK   |
| 2001 – 2002 | Special Programme in Aquaculture & Aquatic Resources Management, School of Environment, Resources & Development, Asian Institute of Technology, Pathumthani, Thailand |
| 1999 – 2000 | M.Sc. in Aquaculture, University of Stirling, Institute of Aquaculture, Stirling, Scotland, UK  |
| 1993 – 1999 | B.Sc. (Ptychio) in Agriculture (Specialization: Animal Production), School of Geotechnical Sciences, Aristotle University of Thessaloniki, Greece                     |
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**Academic career**

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| 2020 – today | Associate Professor, Dept. of Ichthyology & Aquatic Environment, School of Agricultural Sciences, University of Thessaly, Greece          |
| 2015 - 2020  | Assistant Professor, Dept. of Ichthyology & Aquatic Environment, School of Agricultural Sciences, University of Thessaly, Greece          |
| 2010 – 2015  | Lecturer, Dept. of Ichthyology & Aquatic Environment, School of Agricultural Sciences, University of Thessaly, Greece                     |
| 2006 – 2010  | Teaching and Research Fellow, Dept. of Ichthyology & Aquatic Environment, School of Agricultural Sciences, University of Thessaly, Greece |
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**Main conferences (out of 55)**

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1. Metsoviti M.N., Gkalogianni E.Z., Katouni A.M., Rougkas G., Savvaki E., Psoufakis P., Katsoulas N., Papapolymerou G., **Karapanagiotidis I.T.** (2018). Effects of replacing fishmeal by *Chlorella vulgaris* and fish oil by *Nannochloropsis gaditana* and *Schizochytrium* sp. blend on growth and feed efficiency of gilthead seabream (*Sparus aurata*). Proceedings of the European Aquaculture Society and World Aquaculture Society (AQUA 2018), August 25-29, Montpellier, France, p. 508
2. Metsoviti M.N., Lachanidou G., Manolios A., Berillis P., Katsoulas N., Papapolymerou G., **Karapanagiotidis I.T.** (2018). The effect of fishmeal and fish oil replacement by dietary microalgae species on liver histology in gilthead seabream (*Sparus aurata*). Proceedings of the 3<sup>rd</sup> International Congress on Applied & Aquatic Environment (HydroMediT 2018), pp. 148-151.
3. Rumbos C.I., **Karapanagiotidis I.T.**, Mente E., Psoufakis P., Athanassiou C.G. (2018). Rearing insects for use in aquafeeds: preliminary results on the evaluation of various commodities as breeding and feeding substrates for the yellow mealworm, *Tenebrio molitor*. Proceedings of the 3<sup>rd</sup> International Congress on Applied & Aquatic Environment (HydroMediT 2018), pp. 171-174.
4. Metsoviti, M.N., Katsoulas, N., **Karapanagiotidis, I.T.**, Papapolymerou, G. (2017). Effects of temperature on growth rate, lipid and protein content of the microalgal species *Nannochloropsis oculata*. Annals of the University of Craiova. Vol. XXII (LVIII) – 2017.p. 191-196
5. **Karapanagiotidis I.T. (2016)**. The use of non-ruminant processed animal proteins in aquafeeds for gilthead seabream (*Sparus aurata*). HYDROMERIT 2016, 2nd International Congress of Applied Ichthyology and Aquatic Environment, 10-12 November 2016, Messolonghi, Greece.
6. Metsoviti M.N., Papapolymerou G., **Karapanagiotidis I.T.**, Katsoulas N. (2016). Effect of different concentrations of nitrogen on the growth rate and nutrient content of the microalga *Chlorella vulgaris*. HYDROMERIT 2016, 2nd International Congress

- of Applied Ichthyology and Aquatic Environment, 10-12 November 2016, Messolonghi, Greece.
7. Neofytou M.C., **Karapanagiotidis I.T.**, Psofakis P., Egglezos G., Karvouni I., Savva E., Tziokas G., Rumbos C.I., Athanasiou C.G. (2016). The use of de-fatted *Hermetia illucens* meal in the diet of the gilthead seabream (*Sparus aurata*). HYDROMERIT 2016, 2nd International Congress of Applied Ichthyology and Aquatic Environment, 10-12 November, Messolonghi, Greece.
  8. Psofakis P., Daskalopoulou E., Vogiatzis I., Alexiou K., Mastora A., Kindinis K., Tziantziou L., **Karapanagiotidis I.T.** (2016). Replacement of fishmeal with hydrolysed feathermeal on the diet of gilthead seabream (*Sparus aurata*). HYDROMERIT 2016, 2nd International Congress of Applied Ichthyology and Aquatic Environment, 10-12 November, Messolonghi, Greece.
  9. Psofakis P., Berillis P., **Karapanagiotidis I.T.** (2016). The effect of poultry meal and hydrolyzed feathermeal on liver and intestinal morphology in the diet of gilthead seabream (*Sparus aurata*). HYDROMERIT 2016, 2nd International Congress of Applied Ichthyology and Aquatic Environment, 10-12 November, Messolonghi, Greece.
  10. **Karapanagiotidis I.T.**, Daskalopoulou E., Vogiatzis I., Rumbos C., Mente E., Athanassiou C.G. (2015). *Hermetia illucens* prepupae meal as a protein source in the diet of gilthead seabream *Sparus aurata*. European Aquaculture Society, Rotterdam, The Netherlands, 20-23 October.
  11. Psofakis P., Daskalopoulou E., Theodorou A., Mente E., **Karapanagiotidis I.T.** (2015). Effect of replacing fishmeal with poultry meal and hydrolysed feather meal on growth and feed efficiency of gilthead seabream (*Sparus aurata*). European Aquaculture Society, Rotterdam, The Netherlands, 20-23 October.

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#### Publications in scientific journals / book chapters

1. Psofakis P., **Karapanagiotidis I.T.**, Malandrakis E.E., Golomazou E., Exadactylos A., Mente E. (2020). Effect of fishmeal replacement by hydrolyzed feather meal on growth performance, proximate composition, digestive enzyme activity, haematological parameters and growth-related gene expression of gilthead seabream (*Sparus aurata*), *Aquaculture* 521, 735006
2. Metsoviti M.N., Papapolymerou G., **Karapanagiotidis I.T.**, Katsoulas N. (2020). Effect of light intensity and quality on growth rate and composition of *Chlorella vulgaris*. *Plants*, 9, 31.
3. Rumbos C.I., **Karapanagiotidis I.T.**, Mente E., Psofakis P., Athanassiou C.G. (in press). Evaluation of various commodities for the development of the yellow mealworm, *Tenebrio molitor*. *Scientific reports*
4. **Karapanagiotidis I.T.**, Psofakis P., Mente E., Malandrakis E., Golomazou E. (2019). Effect of fishmeal replacement by poultry by-product meal on growth performance, proximate composition, digestive enzyme activity, haematological parameters and gene expression of gilthead seabream (*Sparus aurata*). *Aquaculture Nutrition* 25: 3-14 (I.F. 1.665)
5. Rumbos C.I., **Karapanagiotidis I.T.**, Mente E., Athanassiou C.G. (2018). The lesser mealworm *Alphitobius diaperinus*: a noxious pest or a promising nutrient source? *Reviews in Aquaculture* 1-20, doi: 10.1111/raq.12300
6. Metsoviti M.N., Katsoulas N., **Karapanagiotidis I.T.**, Papapolymerou G. (2019). Effect of nitrogen concentration, two-stage and prolonged cultivation on growth rate, lipid and protein content of *Chlorella vulgaris*. *Journal of Chemical Technology and Biotechnology* 94: 1466-1473.
7. Parlapani F.F., Boziaris I.S., Meziti A., Michailidou S., Haroutounian S.A., Argiriou A., **Karapanagiotidis I.T.** (2019). Microbiological status based on 454-pyrosequencing and volatilome analysis of gilthead seabream (*Sparus aurata*) fed on

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- diets with hydrolyzed feather meal and poultry by-product meal as fishmeal replacers. *European Food Research and Technology* 245: 1409-1420.
8. Metsoviti M.N., Papapolymerou G., **Karapanagiotidis I.T.**, Katsoulas N. (2019). Comparison of growth rate and nutrient content of five microalgae species cultivated in greenhouses. *Plants* 8: 279, doi:10.3390/plants8080279
  9. **Karapanagiotidis I.T.**, Psoufakis P., Mente E., Malandrakis E., Golomazou E. (2019). Effect of fishmeal replacement by poultry by-product meal on growth performance, proximate composition, digestive enzyme activity, haematological parameters and gene expression of gilthead seabream (*Sparus aurata*). *Aquaculture Nutrition* 25: 3-14.
  10. Rumbos C.I., **Karapanagiotidis I.T.**, Mente E., Athanassiou C.G. (2018). The lesser mealworm *Alphitobius diaperinus*: a noxious pest or a promising nutrient source? *Reviews in Aquaculture* 1-20, doi: 10.1111/raq.12300
  11. **Karapanagiotidis I.T.** (2017). Nutrient profiles of tilapia. In: *Tilapia in Intensive Co-culture* (P. W. Perschbacher & R.R. Stickney, Eds). World Aquaculture Society Book series, John Wiley & Sons, pp. 261-305.
  12. **Karapanagiotidis I.T.**, Mente E., Berillis P., Rotllant G. (2015). Measurement of the feed consumption of *Nephrops norvegicus* feeding on different diets and its effect on body nutrient composition and digestive gland histology. *Journal of Crustacean Biology* 35: 11-19.
  13. **Karapanagiotidis I.T.** (2014). The Re-Authorization of Non-Ruminant Processed Animal Proteins in European Aqua feeds. *Fisheries and Aquaculture Journal*, 5:4 <http://dx.doi.org/10.4172/2150-3508.1000e111>.
  14. **Karapanagiotidis I.T.**, V. Karalazos, N. Kougioumtzis, V. Tsiamis, V. Tsiaras, C. Neofitou, I. Karacostas and I. Nengas (2014). Growth and Feed Utilization of Golden Grey Mullet (*Liza aurata*) in a Coastal Lagoon Ecosystem Fed Compound Feeds with Varying Protein Levels. *The Israeli Journal of Aquaculture - Bamidgeh*, IJA\_66.2014.1011, 9 pages (open access).
  15. Rotllant G., Mente E., Gisbert E., **Karapanagiotidis I.T.** (2014). Effects of different diets on the digestive physiology of adult Norway lobster *Nephrops norvegicus*. *Journal of Shellfish Research* 33(1): 1–9.
  16. Berillis P., Simon C., Mente E., Sofos F., **Karapanagiotidis I.T.** (2013). A novel image processing method to determine the nutritional condition of lobsters. *Micron* 45: 140-144.
  17. Berillis P., Hatzioannou M., **Karapanagiotidis I.T.**, Neofitou C. (2013) Morphological study of muscular tissue collagen of wild and reared *Cornu aspersum* (Müller, 1774). *Molluscan Research* 33(1): 6-13.
  18. Mente, E., Stratakis, A., Boziaris, I.S., Kormas, K.A, Karalazos, V., **Karapanagiotidis, I.T.**, Catsiki, V.A. and Leondiadis L. (2012). Sustainable aquaculture development: the case of environmentally friendly sea bream production in Greece. *Hydrobiologia Sci. Mar.* 76: 549-560.
  19. Mente, E., Carter, C.G., Barnes, K., **Karapanagiotidis, I.T.** (2011). Protein synthesis in wild-caught Norway lobster (*Nephrops norvegicus* L.). *Journal of Experimental Marine Biology and Ecology* 409 (1-2) , pp. 208-214.
  20. **Karapanagiotidis I.T.** and Neofitou C. (2011). The Role of Aquaculture in Providing a Highly Nutritious and Health-Promoting Food for Human: Concerns and Challenges. In: "Food Quality: Control, Analysis and Consumer Concerns", D.A. Medina and A.M. Laine (Eds.), ISBN: 978-1-61122-917-2, Nova Science Publishers, Inc., pp. 303-310.
  21. Mente E., Karalazos V., **Karapanagiotidis I.T.** and Pita C. (2011). Nutrition in organic aquaculture: an inquiry and a discourse. *Aquaculture Nutrition* 17(4): e798-e817.
  22. Mente, E., Davidson, I., **Karapanagiotidis, I.T.**, Fountoulaki, E., Nengas, I. (2010).

- Amino acid analysis in the shore crab *Carcinus maenas* (Decapoda: Brachyura). *Journal of Crustacean Biology* 30: 643-650.
23. **Karapanagiotidis, I.T.**, Yakupitiyage, A., Little, D.C., Bell, M.V., Mente, E. (2010). The nutritional value of lipids in various tropical aquatic animals from rice-fish farming systems in northeast Thailand. *Journal of Food Composition and Analysis* 23: 1-8.
  24. Mente, E., **Karapanagiotidis, I.T.**, Logothetis, P., Vafidis, D., Malandrakis, E., Neofitou, N., Exadactylos, A. & Stratakos, A. (2010). The reproductive cycle of Norway lobster. *Journal of Zoology*, 278: 324-332.
  25. Mente, E., Pierce, G.J., Spencer, N., Martin, J.C., **Karapanagiotidis, I.T.**, Santos, M.B., Wang, J. and Neofitou, C. (2008). Diet of demersal fish species in relation to aquaculture development in Scottish sea lochs. *Aquaculture* 277, 263-274.
  26. **Karapanagiotidis, I.T.** (2011). Λιπίδια. 5<sup>ο</sup> Κεφάλαιο. Σε: Διατροφή και φυσιολογία ιχθύων και καρκινοειδών, (Μεντέ, Ε. και Νέγκας Ι.). Εκδόσεις ΠΑΠΑΖΗΣΗ.
  27. **Karapanagiotidis, I.T.**, Bell, M.V., Little, D.C. and Yakupitiyage, A. (2007). Replacement of dietary fish oils by alpha-linolenic acid-rich oils lowers omega 3 content in tilapia flesh. *Lipids*, 42(6): 547-559
  28. **Karapanagiotidis, I.T.**, Bell, M.V., Little, D.C., Yakupitiyage, A. and Rakshit, S.K. (2006). Polyunsaturated Fatty Acid Content of Wild and Farmed Tilapias in Thailand : Effect of Aquaculture Practices and Implications for Human Nutrition. *Journal of Agricultural and Food Chemistry*, 54(12): 4304-4310.

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#### Recent research projects

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2020-current	Principal Investigator for University of Thessaly in “Human nutrition, animal and fish feeding on microalgae derived products through sustainable photosynthetic autotrophic cultures (ΗΛΙΟ-ΔΙΑΤΡΟΦΗ)”, OP Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK), Research-Create-Innovate – B cycle
2020-current	Researcher in “Improving the existing competences and the developing new ones in the aquaculture and fish products trade sector (DACIAT)” Territorial Cooperation Programmes, Interreg, Black Sea Basin ENI CBC.
2019-current	Project Coordinator in “Use of insect protein and microalgal oil for fishmeal and fish oil replacement in the diets of gilthead seabream ( <i>Sparus aurata</i> ) and European seabass ( <i>Dicentrarchus labrax</i> ) (FInAl).” OP Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK), Special Actions in Aquaculture
2019-current	Researcher in “Future growth in sustainable, resilient and climate-friendly organic and conventional European aquaculture (FutureEUaqua)” HORIZON 2020 - European Commission.
2018-current	Principal Investigator for Univ. of Thessaly in “Curriculum development for sustainable seafood and nutrition security (SSNS)”, Erasmus+/KA2: Higher Education – International Capacity Building, European Commission, Leader Asian Institute of Technology (Thailand).
2018-current	Deputy Principal Investigator in the project entitled “Exploitation of liquid wastes for microalgae cultivation and use for biodiesel and aquafeed production - Alga4Fuel&Aqua”, T1EDK-01580, OP Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK), Principal Investigator: N. Katsoulas, Associate Professor, University of Thessaly.
2018-current	Main researcher in “Supporting Maritime Spatial Planning in the Eastern Mediterranean (SUPREME)”, financed by the European Maritime and Fisheries Fund (EMFF), Leader : CORILA - Consorzio per il Coordinamento Delle Ricerche Inerenti al Sistema Lagunare di Venezia.
2017-current	Principal Investigator/ Supervisor of Dr. A. Lolas in “Culture of Amphipods

	Caprellidae and potential use on aquaculture”, Niarchos Foundation, Postdoctoral grants for Univ. of Thessaly,
2017-current	Member of Supervising Committee of Dr. C. Roumbos in “Utilization of insects as alternative nutrient sources in aquafeeds”, Niarchos Foundation, Postdoctoral grants for Univ. of Thessaly,
2017	Researcher in the EU funded project entitled “Raising public awareness of development issues and promoting development education in the European Union”, RURAL DEAR AGENDA - EYD 2015. Research project funded by the European Union, 01/09/2015-31/12/2017
2014 – 2016	Principal Investigator in “Use of Processed Animal Proteins in the feeds of seabream ( <i>Sparus aurata</i> )”. Funded by E.P.AL. 2007-2013, Ministry of Rural Development and Food, Greece.
2014 – 2016	Research fellow in “Implementation of modern practices for the minimization of environmental impact of aquaculture on benthos: the <i>Holothuria tubulosa</i> case”. Funded by E.P.AL. 2007-2013, Ministry of Rural Development and Food, Greece (PI: Lecturer N. Neofitou).

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### Research interests

- Nutrition and feeding of fish and crustaceans
- Nutrition physiology of aquatic animals
- Feed formulation - Aquafeed technology
- Lipids and fatty acids in fish
- Aquaculture