

Jonathan (Yoni) Belmaker, Ph.D

CURRICULUM VITAE

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Name: Jonathan Belmaker

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A. EDUCATION

Period of study	Name of University	Subject	Degree	Date of award
1998 - 2001	Ben Gurion University	Biology	B.Sc. ( <i>Summa cum laude</i> )	2002
2002 - 2008	Ben Gurion University	Ecology	Ph.D. ( <i>Summa cum laude</i> )	2009

**Title of Doctoral Dissertation:** Factors Shaping Coral Reef Fish Assemblages: From the Local to the Regional Scale

**Names of supervisors:** Dr. Nadav Shashar and Dr. Yaron Ziv

B. FURTHER STUDIES

**2008 -2012** Post-doctoral research

At the Department of Ecology & Evolutionary Biology, Yale University (2009-2012) &

Section of Ecology, Behavior & Evolution, University of California, San Diego (2008-2009).

**Names of advisor:** Dr. Walter Jetz

C. ACADEMIC AND PROFESSIONAL EXPERIENCE

**2012 -** Senior Lecturer

Department of Zoology, Tel Aviv University

## D.1 ACTIVE PARTICIPATION IN SCIENTIFIC MEETINGS

Year	Conference name	Active Role
2003	<i>Effects of small-scale isolation and predation on fish diversity on experimental reefs.</i> The 40th annual meeting of the Zoological Society of Israel (Sde-Boker, Ben-Gurion University, Israel).	Oral presentation (best presentation for a Master student)
2004	<i>Why do remote coral reefs have high fish diversity? The effect of isolation on predation.</i> 10th International Coral Reef Symposium (Okinawa, Japan)	Poster
2005	<i>The relationship between local and regional richness: a meta analysis on coral reef fish.</i> The 42 <sup>nd</sup> annual meeting of the Zoological Society of Israel (Rehovot, Israel).	Oral presentation
2006	<i>Scale and biodiversity of reef fishes: Comparison between East Africa and the Red Sea.</i> The International Society for Reef Studies, European Meeting (Bremen, Germany)	Oral presentation
2007	<i>Resident and transient fishes along a global gradient in regional richness.</i> The 44th annual meeting of the Zoological society of Israel (Achva College, Israel)	Oral presentation
2009	<i>Regional variation in the diversity of coral-dwelling fishes is driven by gradients in coral assemblage structure.</i> The International Biogeographic Society biennial Meeting (Merida, Mexico).	Poster
2009	<i>Environment and the relationship between local and regional richness in terrestrial vertebrates.</i> DIVERSITAS – OSC2 (Cape Town, South Africa)	Oral presentation
2010	<i>Do richness – temperature associations vary across grain sizes?</i> Gordon research conference: Metabolic Basis of Ecology (University of New England, Biddeford, Maine).	Poster
2011	<i>Environmental and functional controls of terrestrial vertebrate assemblages.</i> The International Biogeographic Society biennial Meeting (Heraklion, Greece).	Poster
2011	<i>Scaling of functional turnover in birds and mammals.</i> The International Biogeographic Society Early Career Meeting	Oral presentation

	(Oxford, UK)	
2011	<i>Scale and the control of species diversity within protected areas.</i> SCOPE- Zhongyu International Environmental Sciences Forum (Yixing, China)	<b>Invited lecture</b>
2012	<i>Regional pools and environmental controls of local vertebrate assemblages.</i> US - International Association for Landscape Ecology (Newport, Rhode Island)	Oral presentation

**After last promotion:**

2012	<i>Explaining Red Sea fish introduction into the Mediterranean.</i> The fourth International Congress Of Zoology (Haifa, Israel)	Oral presentation
2013	<i>A biogeographic perspective on species invasion: Red Sea fish introduction into the Mediterranean.</i> The International Biogeographic Society biennial Meeting (Miami, Florida).	Oral presentation
2013	<i>Frontiers in Marine Ecology.</i> The Israeli association for aquatic sciences annual meeting (Michmoret, Israel)	<b>Invited plenary lecture</b>
2013	The 50th Annual Meeting of the Zoological Society of Israel (Tel Aviv, Israel)	<b>Organizing committee</b>
2013	<i>Global Change and the Future of Biodiversity.</i> The Kavli Frontiers of Science Symposium (Irvine, CA)	<b>Invited lecture</b>
2014	<i>Empirical evidence for the scale-dependence of biotic interactions.</i> Gordon research conference: Unifying Ecology Across Scales (University of New England, Biddeford, Maine).	Poster
2014	<i>Using ecological principles to inform restoration initiatives.</i> Marine Ecological Restoration (MER) Workshop (Eilat, Israel)	<b>Invited lecture</b>
2014	Marine Bioinvasions Symposium (Herzeliya, Israel)	<b>Organizing committee</b>
2014	Commonness and Rarity in Coral Reef Fishes Symposium (Eilat-Tel Aviv, Israel)	<b>Head of Organizing committee</b>

2015	<i>Predicting alien fish introduction and spread.</i> The 16th Sde Boker Symposium in Memory of Merav Ziv (Sde Boker, Israel)	<b>Invited lecture</b>
2015	<i>The magnitude of dark diversity across taxa and scales.</i> The European Ecological Federation conference (Rome, Italy)	<b>Invited lecture</b>
2015	<i>Climate change and the fate of Mediterranean fishes.</i> Batsheva de Rothschild Seminar: Environmental Science and Policy - Challenges in the South Eastern Mediterranean (Nir Etzion, Israel)	<b>Invited lecture</b>
2016	<i>A tale of two seas: understanding non-indigenous species introduction into the Mediterranean.</i> The 8th annual SIDEER graduate symposium on transcontinental movements (Sde Boker, Israel)	<b>Invited lecture</b>
2016	The Annual Meeting of the Israel Society of Ecology and Environmental Sciences (Tel Aviv, Israel)	<b>Organizing committee</b>
2016	<i>Non-stationarity in the co-occurrence patterns of species across environmental gradients.</i> British Ecological Society Annual Meeting, Macroecology chapter (Oxford, UK)	Oral presentation
2016	<i>Empirical evidence for the scale-dependence of biotic interactions.</i> Humboldt Colloquium: Bridges to the Future: German-Israeli Scientific Relations (Tel Aviv University, Israel)	<b>Invited poster</b>
2016	Organized a panel on " <i>Science based marine conservation</i> ". The Israeli association for aquatic sciences annual meeting (Herzeliya, Israel)	<b>Panel organizer</b>

## D.2 Workshops attended

<b>Year</b>	<b>Workshop name and location</b>
2004	Summer Institute: Uncertainty and variability in ecological inference, forecasting, and decision making. (Center on Global Change, Duke University, NC).
2005	Multivariate analysis of ecological data (Ceske Budejovice, Czech Republic).

**After last promotion:**

2012	COST working group meeting (Rome, Italy)
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2013	GASPAR working group (CESAB, Marseille, France)
2013	COST working group meeting (Dublin, Ireland)
2013	ESA Scaling Up workshop (Baltimore, MD)
2013	Metadata standards and island species distributions (New Haven, CT)
2014	COST working group meeting (Leipzig, Germany)
2014	The 1 <sup>ST</sup> Science-Based Management of Marine and Coastal Resources workshop (Haifa, Israel)
2015	COST working group meeting (London, UK)
2016	EuroMarine foresight workshop (Eilat, Israel)
2016	sDiv working group on "Toward a consensus on the drivers of global-scale patterns of species richness" (sRichGrad, Leipzig, Germany)

## E. ACADEMIC AND PROFESSIONAL AWARDS

### E.1.1 Internal grants (at Tel Aviv University)

#### After last promotion:

YEAR	TITLE	P.I.	CO-PI	SUM	For my use (PI)	Partner (co-PI)
2014	Workshop grant: Relative species abundance and rarity in coral reef fish	Jonathan Belmaker	-	\$2,500	\$2,500	-

### E.1.2 External grants

YEAR	FOUNDATION	TITLE	P.I.	CO-PI	SUM
2003	PADI Foundation	The Effect of Connectivity to a Natural Reef on Artificial Reef Fish Communities	Jonathan Belmaker	-	\$2,150
2003	American Museum of Natural History (Lerner-Gray Fund for	Species turnover, short-term stability and community structure in coral reef fish –	Jonathan Belmaker	-	\$1,500

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	Marine Research)	the effect of isolation on artificial reef fish communities			
2006	The Australia-Israel Scientific Exchange	Regional and local factors shaping coral reef fish diversity	Jonathan Belmaker	-	\$5,000

**After last promotion:**

2012-2015	The Israeli department of Agriculture	Seasonal growth and mortality in native and Lessepsian Mediterranean fish	Jonathan Belmaker	Moshe Kiflawi, Daniel Golani	639,000 NIS
2013-2014	"Yad Hanadiv" Workshop Grant	Relative species abundance and rarity in coral reef fish	Jonathan Belmaker	-	\$38,000
2013	ASSEMBLE grant (to offset costs of field research in Banyuls, France)	Traits, Invasion and Mediterranean fish communities	Jonathan Belmaker	-	€10,000 (approximate)
2013-2017	Marie Curie Career Integration Grant	Causes and Consequences of Mediterranean Fish Invasions	Jonathan Belmaker	-	€100,000
2014	The Zoology Society of Israel	Workshop grant: Relative species abundance and rarity in coral reef fish	Jonathan Belmaker	Moshe Kiflawi, Michel Kulbicki	2,500NIS
2014-2015	German Israel Foundation	Incorporating biotic constraints into species distribution models: predicting fish invasion in the Mediterranean	Jonathan Belmaker	-	€28,000
2014-2017	The Israeli department of Agriculture	Quantifying the ecological and economic impact of by-catch from coastal fishing and means to reduce it by increasing net selectivity	Jonathan Belmaker	Doron Shults, Moshe Kiflawi, Yehuda Benayahu	798,000NIS
2015	The Israeli Nature and Parks authority	Fish diversity along the Israeli Mediterranean coast.	Jonathan Belmaker	-	121,350 NIS
2015-	The Bi-National Science foundation	Integrating the effects of warming and body size	John De Long,	-	\$180,000

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2018	(BSF)	evolution on marine size spectra	Jonathan Belmaker		
2015	The Israel Science Foundation (ISF)	Young faculty equipment grant	Jonathan Belmaker		355,074 NIS
2015-2020	The Israel Science foundation (ISF)	Hierarchical delineations of ecological communities to enhance ecological predictions	Jonathan Belmaker	-	1,250,000 NIS
2015-2017	NSF (MacroSystems Biology). Collaborative Research: EAGER-NEON	Using intraspecific trait variation to understand processes structuring continental-scale biodiversity patterns.	Ben Baiser, Sydne Record, Phoebe Zarnetsk, Angela Strecker	Jonathan Belmaker, Mao-Ning Tuanmu	\$300,000
2015	The Israeli Nature and Parks authority	The influence of human disturbance on coral reef fishes.	Jonathan Belmaker	-	41,000 NIS
2016	Schulich Initiative	Stress on the Reef: Elevated Cortisol Levels and Habitat Utilization in Coral Reef Fish	Moshe Kiflawi, Glenn Crossin	Jonathan Belmaker	\$75,000 Canadian
2016	The Israeli Nature and Parks authority	The influence of human disturbance on coral reef fishes.	Jonathan Belmaker	-	41,000 NIS

## E.2 Fellowships

2003 -2007 The Kreitman Foundation Fellowship (given to ten new graduate students competing from all faculties in Ben Gurion University)

2008 -2009 Rothschild Postdoctoral Fellowship

## E.3 Scholarships

## E.4 Prizes

2003 The Merav Ziv award for excellence in ecology. (Sde-Boker, Ben-Gurion University, Israel).

2003 The best oral presentation for a Master student. The 40th annual meeting of the Zoological society of Israel (Sde-Boker, Ben-Gurion University, Israel).

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- 2004 Certification of merit from the Charles and Anne Lindbergh foundation
- 2005 The Berko award (best-student award) for excellence in ecological research (Interuniversity institute for Marine Science, Eilat, Israel).
- 2006 The Wolf Foundation award
- 2006 The Aharon Katzir student travel fellowship (Weizmann Institute of Science, Rehovot, Israel)
- 2007 The Rieger Foundation Fellowship (Jewish National Fund Program for Environmental Studies, Jerusalem, Israel)
- 2008 The Zoological Society of Israel travel award (declined)
- 2008 The International Biogeography Society travel award (Merida, Mexico).
- 2009 DIVERSITAS travel award (Cape Town, South Africa)
- 2010 The International Biogeography Society travel award (Crete, Greece).
- 2011 Scope-Zhongyu Young Scientist Award for Environmental Sciences

F. MEMBERSHIP IN PROFESSIONAL SOCIETIES

- 2001- Israeli Society for the protection of Nature (SPNI)
- 2003- Israel Zoological Society
- 2008- International Biogeographic Society

G. STUDENTS SUPERVISED

G.1 Doctoral Students

YEAR	NAME	SUBJECT	INSTITUTION	Comments
2012 -	Itai van Rijn	Seasonal growth and mortality in indigenous and invasive Mediterranean fishes	Tel-Aviv University	Co-supervised with Moshe Kiflawi
2012 -	Or Givan	Commonness and rarity in Mediterranean fishes	Tel-Aviv University	
2013 -	Enav Vidan	Trait diversity of Palearctic reptiles	Tel-Aviv University	Co-supervised with Shai Meiri
2016-	Itai Granot	Community assembly and specialization across latitudinal gradients	Tel-Aviv University	

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2016-	Ori Frid	Mediterranean fishes community structure	Tel-Aviv University	
2016-	Renanel Pickholtz	Stress and movement patterns of fishes	Tel-Aviv University	

G.2 M.Sc. Students

YEAR	NAME	SUBJECT	INSTITUTION	Comments
2013 -2015	Itai Granot	Processes structuring the assembly of fouling communities	Tel-Aviv University	Co-supervised with Noa Shenkar
2013 -2015	Ori Frid	Ecological impacts of coastal fishing	Tel-Aviv University	
2013 -2016	Renanel Pickholtz	Landscape ecology of invasive herbivorous fishes	Tel-Aviv University	
2015-	Inbal Gamliel	Biotic interactions and resilience to climate change in intertidal invertebrates	Tel-Aviv University	Co-supervised with Gil Rilov
2015-	Hagar Yancovitch shalom	Abundance-range size relationships in reef fishes	Tel-Aviv University	
2015-	Hezi Buba	Temperature-dependent functional responses in fishes	Tel-Aviv University	
2016-	Tal Gavriely	Fish movement ecology	Tel-Aviv University	

G.3 Post-Doctoral Researchers

YEAR	NAME	SUBJECT	INSTITUTION	Comments
2012-2013	Assaf Zvuloni	Scaling of coral functional and phylogenetic structure	Ben Gurion University	Co-supervised with Moshe Kiflawi
2016-	Shane Blowes	Scale-dependencies in the drivers of large-scale diversity gradients	Tel-Aviv University	Co-supervised with Jonathan Chase
2016-	Jenny Tynyakov	Anthropogenic influences on fish behavior	Tel-Aviv University	

## H. COURSES TAUGHT

<b>Year, Semester</b>	<b>Course</b>	<b>Points</b>	<b>Evaluation (scale of 7)</b>
2013 (first semester)	Ecology	1 of 4	5.2
2014 (second semester)	Community Ecology	2 of 2	5.9
2014 (first semester)	Ecology	1 of 4	5.6
2015 (second semester)	Community Ecology	3 of 3	6.5

## I. OTHER ACADEMIC ACTIVITIES

## I.1 EDITORIAL DUTIES

<b>Position</b>	<b>Description</b>
<b>Associate editor</b>	Global Ecology and Biogeography (2013 - )
<b>Ad hoc journal reviewer</b>	Ecology Letters * Proceeding of the Royal Society B: Biological Sciences * Ecology * The American Naturalist * Limnology & Oceanography – Methods * Global Ecology and Biogeography * Global Change Biology * Journal of Biogeography * Journal of Animal Ecology * Biology Letters * Oecologia * Ecosphere * Ecography * Diversity & Distribution * Marine Ecology Progress Series * Methods in Ecology and Evolution * Journal of Fish Biology * Journal of Tropical Ecology * Journal of Experimental Marine Biology & Ecology * Israel Journal of Ecology & Evolution * Aquatic ecology * Coral reefs * Marine Ecology * Raffles Bulletin of Zoology * Fisheries Research * Fisheries Oceanography * PLoS ONE * Faculty of 1000
<b>Grant advisory board</b>	Israel Ministry of Science and Technology (2015)
<b>Ad hoc grant reviewer</b>	NSF (2015, 2016), ISF (2016)

## I.2 CONFERENCE ORGANIZING

<b>Year</b>	<b>Conference</b>
2013	Organizing committee, The 50th Annual Meeting of the Zoological Society of Israel, Tel Aviv, Israel
2014	Organizing committee, Marine Bioinvasions Symposium- towards large-scale studies, Herzelia, Israel
2014	Head of Organizing committee, Commonness and Rarity in Coral Reef Fishes Symposium, Tel Aviv - Eilat, Israel

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2016 Organizing committee, The Israel Society of Ecology and the Environment annual meeting, Tel Aviv, Israel

### I.3 INVITED PRESENTATIONS

Year	Title and location
2005	<i>Effects of small-scale isolation and predation on fish diversity on experimental reefs.</i> Weekly Seminar. Israel Oceanography & Limnology Research, Eilat, Israel.
2007	<i>Scale and diversity of coral reef fishes: a multi-regional comparison.</i> Center of Excellence for Reef Studies Special Seminar, James Cook University, Townsville, Australia.
2008	<i>Coral Reef Fish Assemblages: From the Local to the Regional Scale.</i> Center for Population Biology Special Seminar. University of California, Davis, California.
2009	<i>Regional and local species diversity: Linking community ecology and macroecology.</i> Departmental Seminar. Tel Aviv University, Tel Aviv, Israel.
2009	<i>Coral Reef Fish Assemblages: From the Local to the Regional Scale.</i> Departmental Seminar. Scripps Institute of Oceanography, San Diego, California.
2010	<i>Regional and environmental influences on fine-grained assemblages.</i> Departmental Seminar. University of Missouri St. Louis, St. Louis, Missouri.
2010	<i>Regional and environmental influences on fine-grained assemblages.</i> Departmental Seminar. Washington University, St. Louis, Missouri.
2011	<i>(Avian) Community assembly at global scales.</i> Lab of ornithology, Cornell University, Ithaca, New York.
2011	<i>Global scaling of terrestrial vertebrate diversity.</i> Departmental Seminar. Yale University, New Haven, Connecticut.

#### After last promotion:

2013	<i>Species invasion and Mediterranean fish community assembly.</i> Departmental Seminar. Oranim College, Tivon, Israel.
2013	<i>Invasion and Mediterranean fish communities.</i> Banyuls sur mer, France.
2013	<i>Understanding Red Sea fish invasion into the Mediterranean.</i> Institutional weekly Seminar. IUI, Eilat, Israel.
2013	<i>Predicting distributional shifts of species in a changing ocean.</i> The 1ST Science-Based Management of Marine and Coastal Resources workshop, Haifa, Israel.
2014	<i>Using ecological principles to inform restoration initiatives.</i> Marine Ecological Restoration (MER) Workshop, Eilat, Israel.

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2015	<i>Can we predict fish invasions into the Mediterranean?</i> Mitrani Department of Desert Ecology, Ben Gurion University, Israel.
2015	<i>Invasion and community assembly in one of the world's most invaded ecosystem.</i> Center for Theoretical Study, Prague, Czech Republic.
2015	<i>Can we predict fish invasions into the Mediterranean?</i> Department of Marine Biology, Haifa University, Israel.
2016	<i>Non-stationarity in the co-occurrence patterns of species across broad spatial scales.</i> iDiv, Leipzig, Germany.
2016	<i>A tale of two seas: understanding non-indigenous species introduction into the Mediterranean.</i> Department of Ecology, Evolution and behavior, the Hebrew University, Israel.
2016	<i>Developing Species Distribution Models for Halophila invasion.</i> EuroMarine foresight workshop, Eilat, Israel.

### I.3 INTERNATIONAL COMMITTEES

<b>Year</b>	<b>Committee</b>
2012 -2015	Management committee of COST (European Cooperation in Science and Technology) action titled: "Harmonizing Global Biodiversity Modelling (HarmBio)"

### I.4 NATIONAL COMMITTEES

<b>Year</b>	<b>Committee</b>
2012 -2015	Board member of the Israel Zoological Society
2012 -	Israel's Long Term Marine Ecological Research scientific committee
2013 -	Eilat Interuniversity Institute (IUI) teaching committee

### I.5 TEL AVIV UNIVERSITY ADMINISTRATIVE ROLES

<b>Year</b>	<b>Committee</b>
2012 -	National Museum of Natural History scientific steering committee
2013-2014	Zoological garden departmental committee
2014-	Departmental technical committee
2013-	Departmental seminar organizer