

Name: Motti Charter

Date: November 22, 2017

CURRICULUM VITAE

1. **Personal Details**

Permanent Home Address: Kibbutz Gonen

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2. **Higher Education**

a. **Undergraduate and Graduate Studies**

Period of Study	Name of Institution and Department	Degree
1995-1999	University of Massachusetts, Amherst	Bachelor of Science in Animal Science/Pre-Vet
2001-2004	Tel Aviv University, Department of Zoology.	MSc in Zoology
2005-2010	Tel Aviv University, Department of Zoology.	PhD in Zoology

b. **Post-Doctoral Studies**

Period of Study	Name of Institution and Department/Lab	Name of Host
2010-2011	Tel Aviv University, Department of Zoology	Yossi Leshem
2012-2017	University of Haifa	Ido Izhaki
2016-2017	Hebrew University	Ran Nathan

3. Academic Ranks and Tenure in Institutes of Higher Education

Years	Name of Institution and Department	Rank/Position
2017	Shamir Research Institute	Researcher
2017	University of Haifa	Research Associate

4. Offices in Academic Administration

Years	Name of Institution and Department	Role

5. Scholarly Positions and Activities outside the University

Years	Memberships in Academic Professional Associations

Years	Editorial Assignments

Reviewing for Refereed Journal	Years
Wildlife Biology	2008
Wilson Journal of Ornithology	2008-2016
Journal of Field Ornithology	2009
Western Birds	2009
Journal of Raptor Research	2010
Acta Ornithologica	2011
Biological Conservation	2013
New Zealand Journal of Zoology	2015
Ibis	2016
Movement Ecology	2017

6. Active Participation in Scholarly Conferences

a1. International Conferences - Held Abroad

Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
2007	World Owl Conference	Holland	Raptors as biological pest control agents of rodents in agriculture: Conservation, rodent control and cooperation in the Middle East.	Lecturer
2010	25th International ornithological Congress	Brazil	Raptors as biological pest controllers in agricultural fields from a local to regional project	Lecturer
2011	International Conference on the Survey, Monitoring and Conservation of the Long-eared Owl	Serbia	The use of Barn owls as biological control agents - video; Regional cooperation in the Middle East and applications to Long-eared Owl programs	Lecturer
2011	International Conference on the Survey, Monitoring and Conservation of the Long-eared Owl	Serbia	Diet, breeding success, and nest basket use of long-eared owl (<i>Asio otus</i>) in Israel	Lecturer
2013	European Ornithological Union Conference	UK	Does Barn Owl breeding vary between Europe and Middle East?	Lecturer
2013	International seminar on environmental friendly agriculture pest management,	Taiwan	What we know about barn owls breeding and nest box use: a model of an applied project.	Lecturer
2018	Vertebrate pest conference	California	After 29 years, Israeli farmers are still satisfied in using barn owls <i>Tyto alba</i> as biological pest control agents of rodents in agriculture	Lecturer
2018	BARD workshop –	UC DAVIS California	Barn owl demography and nest box occupancy	Co-organizer

	international workshop on the use of barn owls for agricultural pest control			
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a2. International Conferences - Held in Israel

Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
2012	The 21 st international conference of Zoology	Haifa	The barn owl project in Israel: from applied to scientific	Lecturer

a3. Local Conferences

Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
2003	Israel Zoological Conference	Beer Sheva	Internet survey of nesting biology of common kestrels (<i>Falco tinnunculus</i>)	Lecturer
2005	Israel Zoological Conference	Open University	Effects of predation and competition on the breeding success of common kestrels	Lecturer

b. Organization of Conferences or Sessions

Year	Name of Conference	Place of Conference	Subject of Conference	Role

NA

7. Invited Lectures (Others than in Scholarly Conferences)

NA

8. Colloquium Talks

Year	Name of Forum	Place of Lecture	Presentation

9. Research Grants

a. Grants Awarded

Role in Research	Other Researchers (Name & Role)	Title	Funded by (C= Competitive Fund)	Amount	Years
CI	Yossi Leshem, PI and Shai Markman, CI	The use of great tits as biological pest control agents of <i>Thaumetopoea wilkinsoni</i> in pine forest	KKL	200,000 NIS	2010-2013
PI	Aya Goldstein, CI, Yossi Leshem, CI and Shai Markman, CI	Study the effect of invasive avian species on native cavity breeders	Hoopoe Foundation	60,000 NIS	2012-2013
CI	Ido Izhaki- PI	Use of GPS tags in barn owls. In cooperation	Hoopoe Foundation	27,000 NIS	2013-2014
CI	Ido Izhaki, Co PI and Alexandre Roulin, PI	Owls as peacemakers in the Middle East	Addax & Oryx Foundation	107,550 CHF	2012-2015
CI	Ido Izhaki, Co PI	Long-eared owls breeding in agriculture	Emek, Yizreel Regional Council	15,000 NIS	2012-2013
Co PI	Ido Izhaki, PI	The breeding and movement ecology of long-eared owl.	KKL	157,000 NIS	2015-2017
PI	Ido Izhaki, co PI	Girls in STEM research on barn owls	US Embassy of Israel	\$100,000	2015-2018
Co PI	Matthew D Johnson, PI, Sar Kross, Co-PI, Roger Baldwin, Co PI, Ran Nathan, CO PI	International workshop on the use of barn owls for agricultural pest control.	C- BARD	\$38,387	2018

b. Submission of Research Proposals – Pending

Role in Research	Other Researchers (Name & Role)	Title	Funded by (C= Competitive Fund)	Years
PI, 600,00 NIS	שאול גרף: CI ד"ר אורן רייכמן: CI Dr. Roger CI :Baldwin טיטו נתנזון: CI ד"ר דן מלקינסון: CI	שימוש ברחפנים ככלי ברמת דיוק גבוהה (חקלאות מדייקת) לשליטה בנזקי נברנים בשדות החקלאיים של עמק החולה	Northern Research and Development	2017- 2020

10. Scholarships, Awards and Prizes

2014—Inducted in the “World Owl Hall of Fame” and received the “Special Achievement Award” for his work in owl research and conservation in Israel during the “International Festival of Owls” in the Minnesota USA

PUBLICATIONS

A. Ph.D. Dissertation

Title: Interspecific Competition and Predation between Sympatric Breeding Birds

Date of submission: May 2010

Number of Pages: 115

Language: English

Name of Supervisor: Yossi Leshem and Ido Izhaki

University: Tel Aviv University

Publications: D19, D20, D21, D26

B. Scientific Books (Refereed)

Authored Books - Published

Authored Books - Accepted for Publication

Edited Books and Special Journal Issues - Published

Edited Books and Special Journal Issues - Accepted for Publication

C. Monographs

Published

Accepted for Publication

D. Articles in Refereed Journals

Published

- 1 **Charter, M.**, Bouskila, A, Aviel, S., and Y. Leshem 2005. First Record of Eurasian Jackdaw (*Corvus monedula*) Parasitism by the Great Spotted Cuckoo (*Clamator glandarius*) in Israel. *Wilson Journal of Ornithology* 117(2):201–204 .
- 2 **Charter, M.** Bouskila, A, and Y. Leshem 2005. Second clutches by Common Kestrels *Falco tinnunculus* breeding on buildings in Israel. *Sandgrouse* 27:165–167
 - 1) Cited=4
- 3 **Charter, M.** and H. K. Mienis. 2005. Snails in pellets and prey remains of kestrels *Falco tinnunculus* in Israel. *Triton* 12:31–32
 - 1) Cited=0
- 5 **Charter, M.** and Y. Leshem. 2006. First documented case of Lesser Kestrel *Falco naumanni* breeding in an open nest in Israel. *Sandgrouse* 28:77–78
 - 1) Cited=1
- 6 **Charter, M.**, Leshem, Y., Izhaki, I., Guershon, M. and Y. Kiat. 2006. The diet of the Little Owl, *Athene noctua*, in Israel. *Zoology in the Middle East*. 39:31–40
 - 1) Cited=2
 - 2) V
- 7 **Charter M.**, Izhaki I., Shapira L. and Y. Leshem. 2007. Diets of Urban Breeding Barn Owls (*Tyto Alba*) in Tel Aviv, Israel. *Wilson Journal of Ornithology* 119:484–485
 - 1) IF= 0.696
 - 2) R 20/23
 - 3) Cited=15
 - 4) V
- 8 **Charter M.**, Izhaki I., Bouskila, A., and Y. Leshem. 2007. Breeding success of the Eurasian Kestrel (*Falco tinnunculus*) nesting on buildings in Israel. *J. Raptor Res.* 41(2):139–143
 - 1) IF=0.892

- 2) R 18/24
3) Cited=5
4) V
- 9 **Charter M.**, Izhaki I., Bouskila, A. and Y. Leshem. 2007. The effect of different nest types on the breeding success of Eurasian Kestrels (*Falco tinnunculus*) in a rural ecosystem. *J. Raptor Res.* 41(2):143–149
1) IF=0.892
2) R 18/24
3) Cited=12
4) V
- 10 Kiat, Y., Perlman, G., Balaban, A., Leshem, Y., Izhaki, I. and **M. Charter** (2008). Feeding specialization of urban Long-eared Owls, *Asio otus* (Linnaeus, 1758), in Jerusalem, Israel. *Zoology in the Middle East* 43:49–54
1) Cited=2
2) V
- 11 **Charter M.**, Leshem Y., Izhaki I. and S. Halevi. 2008. A case of polygamy or co-operative breeding in the Common Kestrel (*Falco tinnunculus*) in Israel. *Sandgrouse* 30: 164–165
1) Cited=1
- 12 Meyrom, K., Leshem, Y. and **M. Charter**. 2008. Barn Owl *Tyto alba* breeding success in man-made structures in the Jordan Rift valley, Israel. *Sandgrouse* 30: 134–137
1) Cited=4
- 13 **Charter, M.**, Leshem, Y., Ezer, A., Aviel S. and V. Chikatunov 2008. The first record of use of a nest box by Hoopoe *Upupa epops* in Israel. *Acrocephalus* 29 (137):105–107
1) Cited=1
- 14 **Charter, M.**, Izhaki, I., Meyrom, K., Motro, Y. and Y. Leshem 2009. Diets of Barn Owls differ in the same agricultural region. *Wilson Journal of Ornithology* 121: 378–383
1) IF= 0.696
2) R 20/23
3) Cited=15
4) V
- 15 **Charter M.**, Leshem Y. and S. Halevi. 2009. Use of nest baskets by Long-eared Owls *Asio otus* in Israel. *Sandgrouse*. 31:36–37
1) Cited=1
- 16 Meyrom K., Motro Y., Leshem Y., Aviel S., Izhaki I., Argyle F. and **M. Charter** 2009. Nest-box use by the Barn Owl *Tyto alba* in a biological pest control program in the Beit She'an valley, Israel. *Ardea* 97(4): 463–467
1) IF=0.991
2) R 7/24
3) Cited=15
4) V

- 17 **Charter M.**, Meyrom K., Leshem Y., Aviel S., Izhaki I., and Y. Motro 2010. Does nest box location and orientation affect occupation rate and breeding success of Barn Owls *Tyto alba* in a semi-arid environment? *Acta Ornithologica* 44:115–119
- 1) IF= 1.347
 - 2) R 13/24
 - 3) Cited=15
 - 4) V
- 18 **Charter M.**, Leshem Y., Halevi, S., M. and I. Izhaki. 2010. Nest box use by Great Tits in semi–arid rural residential gardens. *Wilson Journal of Ornithology* 122(3): 604–608
- 1) IF= 0.696
 - 2) R 20/23
 - 3) Cited=3
 - 4) V
- 19 **Charter M.**, Izhaki, I. and Y. Leshem. 2010. Effects of the risk of competition and predation in large secondary cavity breeders. *Journal of Ornithology* 151:791–795
- 1) IF= 1.492
 - 2) R 20/23
 - 3) Cited=10
 - 4) V
- 20 **Charter M.**, Leshem, Y., and I. Izhaki 2010. Does nest basket size affect Long-eared Owl and Eurasian Kestrel breeding performance? *Journal of Raptor Research* 44:314–317
- 1) IF=0.892
 - 2) R 18/24
 - 3) Cited=4
 - 4) V
- Dr **Charter M.**, Izhaki, I. and Y. Leshem 2011. Predation or facilitation? An experimental assessment of whether generalist predators affect the breeding success of passerines. *Journal of Ornithology* 153:533–539
- 1) IF= 1.492
 - 2) R 20/23
 - 3) Cited=2
 - 4) V
- 22 Lambrechts M.M., **Charter M.** et al. 2012. Nest-box design for the study of diurnal raptors and owls is still an overlooked point in ecological, evolutionary and conservation studies: a review. *Journal of Ornithology* 153:23–34
- 1) IF= 1.492
 - 2) R 20/23
 - 3) Cited=17
 - 4) V

- 23 **Charter M.**, Peleg O., Leshem Y. and A Roulin 2012. Similar patterns of local barn owl adaptation in the Middle East and Europe with respect to melanic coloration. *Biological Journal of the Linnean Society* 106:447–454
- 1) IF=2.281
 - 2) R 32/48
 - 3) Cited=12
 - 4) V
- 24 **Charter M.**, Izhaki, I., Leshem Y., and A Roulin 2012. Diet and breeding success of long-eared owls in a semi-arid environment. *Journal of Arid Environments* 85:142–144
- 1) IF=2.313
 - 2) R 80/153
 - 3) Cited=3
 - 4) V
- 25 **Charter M.**, Leshem Y, Meyrom K., Peleg O. and A Roulin 2012. The importance of micro-habitat in the breeding of Barn Owls *Tyto alba*. *Bird Study* 59: 368–371
- 1) IF=1.077
 - 2) R 12/24
 - 3) Cited=5
 - 4) V
- 26 **Charter M.**, Izhaki, I., Leshem Y. 2013. Asymmetric seasonal nest site competition between Great Tit and House Sparrows. *Journal of Ornithology* 154:173–181
- 1) IF= 1.492
 - 2) R 20/23
 - 3) Cited=5
 - 4) V
- 27 Møller, A.P.... **Charter M.** et al. 2014. Clutch size variation in Western Palearctic secondary hole-nesting passerine birds in relation to nest box design. *Methods in Ecology and Evolution*. 5:353–362
- 1) If=8.631
 - 2) R 13/153
 - 3) Other rankings
 - 4) Cited=18
 - 5) V
- 28 Peleg O*. **Charter M.***, Leshem Y, Izhaki I., Peleg O. and A Roulin 2014. Conditional association between melanism and personality in Israeli barn owls. *Bird Study*. *Bird Study* 61:572–577
- 1) IF=1.077
 - 2) 12/24
 - 3) Cited=3
 - 4) V
 - 5) *equal contribution
- 29 Møller, A.P.... **Charter M.** et al. . 2014. Variation in clutch size in relation to nest size in birds. *Ecology and Evolution* 4: 3583–3595
- 1) IF 2.716
 - 2) R 57/153
 - 3) Cited=20

- 4) V
- 30 Hadad E., Roulin A. and M. **Charter** 2015. A record of communal nesting in the Barn Owl (*Tyto alba*). *Wilson Journal of Ornithology* 127: 114–119
 1) IF= 1.492
 2) R 20/23
 3) Cited=0
 4) V
- 31 **Charter M.**, Leshem Y, Izhaki I., Peleg O. and A Roulin 2015. Pheomelanin-based colouration is correlated with indices of flying strategies in the barn owl. *Journal of Ornithology*. 156:309–312
 1) IF=1.492
 2) R=6/24
 3) Cited=0
 4) V
- 32 **Charter M.**, Izhaki I., Leshem, Y., Meyrom K., and A Roulin 2015. Relationship between barn owl diet and reproductive success in the Middle East. *Journal of Arid Environments*. 122: 59–63
 1) IF=2.313
 2) R 80/153
 3) Cited=2
 4) V
- 33 Hadad E., Weil G., and M. **Charter** 2015. The importance of natural habitats as Short-toed Eagle (*Circaetus gallicus*) breeding sites. *Avian Bird Research*. 8: 160–166
 1) IF =1.159
 2) R16/24
 3) Cited=0
 4) V
- 34 Burri, R., Antoniazza, S., Gaigher, A., Ducrest, A. L., Simon, The European Barn Owl Network*, C., Fumagalli, L., Goudet, L., and Roulin, A. 2015. The genetic basis of color- related local adaptation in a ring- like colonization around the Mediterranean. *Evolution* 70: 140–153*Listed within article as part of the barn owl network
 1) IF=4.559
 2) R 27/53
 3) Cited=8
 4) V
- 35 **Charter, M.**, Izhaki, I., Ben Mocha and S. Kark 2016. Nest-site competition between invasive and native cavity nesting birds and its implication for conservation. *Journal of Environmental Management* 181:129–134
 1) IF 4.712
 2) R 39/229
 3) Cited=0
 4) V
- 36 Vaugoyeau, M..... **Charter M.** et al. 2016. Interspecific variation in the relationship between clutch size, laying date and intensity of urbanization in

four species of hole-nesting birds. Ecology and Evolution 6:5907-2920.

- 5) IF 2.716
- 6) R 57/153
- 7) Cited=3
- 8) V

- 37 Roulin A., Mansour AR, Spiegel B., **Charter M.**, Dreiss A., and Y Leshem. 2017. "Nature Knows No Boundaries": The role of nature conservation in peacebuilding. Trends in Ecology & Evolution 32: 305-310.

- 1) IF 18.35
- 2) R 1/153
- 3) Cited=0
- 4) V

- 38 **Charter M.**, Izhaki I., Leshem, Y., Meyrom K., and A Roulin 2017. The relationship between weather and reproduction of the barn owl *Tyto alba* in a semi-arid agricultural landscape in Israel. Avian Biology Research 10: 253-258.

- 1) IF 1.519
- 2) R 16/24
- 3) Cited=0
- 4) V

Accepted for Publication

NA

E. Articles or Chapters in Scientific Books (Refereed)

NA

F. Articles in Conference Proceedings

Weller, A., Orchan, Y., Nathan, R., **Charter, M.**, Weiss, A.J. and Toledo, S. 2016. Characterizing the Accuracy of a Self-Synchronized Reverse-GPS Wildlife Localization System. ACM/IEEE International Conference on Information Processing in Sensor Networks

- 1) Cited=1
- 2) V

Published

NA

Accepted for Publication

NA

G. Entries in Encyclopedias

NA

H. Other Scientific Publications

NA

I. Other Works and Publications

NA

J. Submitted Publications

NA

K. Summary of my Activities and Future Plans

During 2018, I am starting studies on the relationship of agriculture and predation on rodent populations in agriculture and a project of using great tits as biological pest control agents of Codling moth *Cydia pomonella* in apple orchards. I will be co-leader in a BARD workshop on “international workshop on the use of barn owls for agricultural pest control” and plan to submit a proposal to a BARD research proposal in September 2018. Furthermore, I will be sending a National Geographic proposal. I have established cooperation's with Dr. Robyn Grant from Manchester Metropolitan University, that will be sending a PhD student to Israel in both January and again in the Spring to study bristle and feet use in barn owls. I plan to publish between 5-6 new publications during 2018. I currently am a co-supervisor for a MSc student from the Hebrew University, who will study how rodent vocalizations and noise pollution affect barn owl hunting in my study site in the Hula Valley.