

# Curriculum Vitae

## James R. Carey

### I. EDUCATION

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1973	Iowa State University	Animal Ecology (BS)
1975	Iowa State University	Entomology (MS)
1980	University of California, Berkeley	Entomology (PhD); Carl Huffacker, Major Prof
1978-79	Harvard University	Population Biology (visiting PhD student; labs of Richard Lewontin and Richard Levins)

### II. POSITIONS

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1973-75	Graduate Research Assistant	Iowa State University, Ames
1975-80	Graduate Research Assistant	University of California, Berkeley
1980-87	Assistant Professor	University of California, Davis
1987-92	Associate Professor	University of California, Davis
1992-2014	Professor	University of California, Davis
2014-present	Distinguished Professor	UC Davis 2 <sup>nd</sup> above scale merit
1997-99	Vice Chairman	UC Davis, Department of Entomology
1996-present	Senior Scholar CEDA, UC Berkeley	Center for Economics and Demography of Aging
1989-2005	Principal Investigator; NIH/NIA	<i>Oldest old mortality</i> : Duke-based project
2003-13	P01 Program Director; NIH/NIA	<i>Aging in the wild</i> ; \$10 million; 11 universities

### IV. Major Teaching

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1980-84	Insect Ecology	30-50 upper division undergraduates
1982-87	Math Insect Demography (4 cr)	5-8 graduate students
1988-1995	Human populations (4 cr)	50-75 upper division undergraduates
1996-present	Longevity (4 cr)	200-300 upper division undergrads
2003-2008	Terrorism and War—classroom (4 cr)	Science and Society lower division GE n=300
2009-2018	Terrorism and War—online (4 cr)	University Course (all campuses); n=125
2015-2018	Guest instructor—Rome; Odense	European Doctoral School of Demography n = 20
2014-present	Guest instructor—Nairobi; Kampala	Sub-Saharan Africa 9-univ. consortium n = 25
2018-present	Guest instructor--Cameroon	Congo Basin Institute (UCLA-based) n = 30

### III. PROFESSIONAL SOCIETIES FELLOW

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2000	Fellow (AAAS)	American Assoc. for Advancement of Science
2003	Fellow (GSA)	Gerontological Society of America
2010	Fellow (CAS)	California Academy of Science
2011	Fellow (ESA)	Entomological Society of America

### IV. PROFESSIONAL RECOGNITIONS AND SELECTED SERVICE ACTIVITIES

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2008-09	UC Academic Senate (UCORP chair)	University Committee on Research Policy
2008-09	UC Academic Council	UC Davis member
2013	Distinguished Service Award	UC Davis Academic Senate
2014	Distinguished Teaching Award	UC Davis Academic Senate
2015	Distinguished Teaching Awards	Entomological Society of America (2 awards)
2017	Great Teacher semifinalist	Baylor University Robert Foster Cherry Teaching Award (international competition)
2006	Distinguished lecture series	Smithgroup, University of Illinois
2010	Keynote lecture	Max Planck Symposium (Marbela, Spain)
2016	Plenary lecture	International Congress of Entomology (Orlando)
2017	Keynote lecture	Evolutionary Demography Society (Miami)
2013	C. W. Woodworth Award	Highest recognition in Pacific Branch of ESA
1990-2019	Associate Editorships (various periods)	Evolution, Aging Cell; Genus, Experimental Gerontology, Demographic Research
2021-present	Core Partner/Supporter/Adviser	Cameroon-based NGO Agriculture for Africa; innovated AgriStars project incentivizing youth to engage in agriculture/agribusiness

**Table 1.** Thirty publications by J. R. Carey that are considered by peers to have helped define, shape and advance the field of biodemography.

### Empirical

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- 1 Carey, J. R., P. Liedo, D. Orozco, and J. W. Vaupel. 1992. Slowing of mortality rates at older ages in large medfly cohorts, *Science*, 258: 457-61.
- 2 Cargill, S. L., J. R. Carey et al. 2003. Age of ovary determines remaining life expectancy in old ovariectomized mice, *Aging Cell*, 2: 185-90.
- 3 Carey, J. R. et al. 1995. A male-female longevity paradox in medfly cohorts, *Journal of Animal Ecology*, 64: 107-16.
- 4 Carey, J. R., et al. 1998. Dual modes of aging in Mediterranean fruit fly females, *Science*, 281: 996-98.
- 5 Carey, J. R., et al. 2008. Longevity-fertility trade-offs in the tephritid fruit fly, across dietary-restriction gradients, *Aging Cell*, 7: 470-77.
- 6 Styer, L., J. R. Carey, et al. 2007. Mosquitoes do senesce: Departure from the paradigm of constant mortality, *American Journal of Tropical Medicine and Hygiene*, 76: 111-17.
- 7 Papadopoulos, N. T., J. R. Carey, et al. 2002. Supine behaviour predicts time-to-death in male Mediterranean fruit flies, *Proceedings of the Royal Society of London: Biological Sciences*, 269: 1633-37.
- 8 Carey, J. R., et al. 2005. Stochastic dietary restriction using a Markov-chain feeding protocol elicits complex, life history response in medflies, *Aging Cell*, 4: 31-39.
- 9 Carey, J. R., et al. 2002. Food pulses increase longevity and induce cyclical egg production in Mediterranean fruit flies, *Functional Ecology*, 16: 313-25.
- 10 Molleman, F, J. R. Carey et al. 2019. Quantifying the effects of species traits on predation risk in nature: A comparative study of butterfly wing damage, *Journal of Animal Ecology*, 10.1111/1365-2656.13139.
- 11 Müller, H-G., J. R. Carey et al. 1997. Early mortality surge in protein-deprived females causes reversal of sex differential of life expectancy in Mediterranean fruit flies, *Proceedings of the National Academy of Sciences*, 94: 2762-65.
- 12 Tatar, M., J. R. Carey et al. 1994. Long term cost of reproduction with and without accelerated senescence in *Callosobruchus maculatus*: analysis of age-specific mortality, *Evolution*, 47: 1302-12.

### Methodological

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- 13 Müller, H. J. R. Carey, et al. 2004. Demographic window to aging in the wild: Estimating survival functions from marked individuals of unknown age, *Aging Cell*, 3: 125-131.
- 14 Carey, J. R., et al. 2008. Age structure changes and extraordinary life span in wild medfly populations, *Aging Cell*, 7: 426-37.
- 15 Carey, J. R., et al. 2012. Graphical and demographic synopsis of the captive cohort method for estimating population age structure in the wild, *Experimental Gerontology*, 47: 787-91.
- 16 Carey, J. R., et al. 1998. A simple graphical technique for displaying individual fertility data and cohort survival: case study of 1000 Mediterranean fruit fly females, *Functional Ecology*, 12: 359-63.

## Mathematical

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- 17 Al-Khafaji, J. R. Carey et al. 2008. Life in the colonies: Hierarchical demography of social insects, *Ecology*, 90: 556-66.
- 18 Carey, J. R., et al. 2018. The life table population identity: Discovery, formulations, proof, extensions and applications. In A. S. R. S Rao (ed.), *Handbook of Statistics: 39: 155-186*.
- 19 Carey, J. R. 2019. Aging in the wild, residual demography and discovery of a stationary population identity. In Press. R. Sears, R. Lee and O. Burger (eds.), *Human Evolutionary Demography* (Open Book Publishers: Cambridge).

## Human

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- 20 Judge, D. S., and J. R. Carey. 2000. Post-reproductive life predicted by primate patterns, *Journal of Gerontology: Biological Sciences*, 55A: B201-B09.
- 21 Carey, J. R., and D. S. Judge. 2001. Life span extension in humans is self-reinforcing: A general theory of longevity, *Population and Development Review*, 27: 411-36.
- 22 Carey, J. R. 2003. Life span: A conceptual overview. *Population and Development Review*, 29: 1-18.

## Reviews

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- 23 Carey, J. R. 2001. Insect biodemography, *Annual Review of Entomology*, 46: 79-110.
- 24 Roach, D. A., and J. R. Carey. 2014. Population biology of aging in the wild, *Annual Review of Ecology, Evolution and Systematics*, 45: 421-43.
- 25 Vaupel, J. W., J. R. Carey, et al. 1998. Biodemographic trajectories of longevity, *Science*, 280: 855-60.
- 26 Carey, J. R., and J. W. Vaupel. 2019. Biodemography. pp 713-746 in D. Poston and M. Micklin (eds.), *Handbook of Population* (2<sup>nd</sup> Ed. Kluwer Academic/Plenum: New York).
- 27 Carey, J. R., and C. A. Gruenfelder. 1997. Population biology of the elderly. in K. Wachter and C. Finch (eds.), *Biodemography of Longevity* (National Academy Press: Washington, DC).

## Books

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- 28 Carey, J. R. 2003. *Longevity. The Biology and Demography of Life Span* (Princeton University Press: Princeton).
- 29 Carey, J. R. 1993. *Applied Demography for Biologists with special emphasis on insects* (Oxford University Press: New York).
- 30 Carey, J. R., and D. A. Roach. 2020. *Biodemography: An Introduction to Concepts and Methods* (Princeton University Press: Princeton).

## LIST OF ALL PUBLICATIONS

## VIDEO GUIDEBOOK

Carey, J. R. 2022. Biodemography Video Guidebook. UC Berkeley Population Sciences Landing Page. 172 videos (12+ hours). [Overview](#); Chapters I-II; Appendices ([Landing Page](#))

## BOOKS AND PROCEEDINGS

Carey, J. R., and D. Roach. 2020. *Biodemography: An Introduction to Concepts and Methods* (Princeton University Press: Princeton).

Carey, J. R. (2003) *Longevity. The Biology and Demography of Life Span*, Princeton University Press, Princeton.

Carey, J. R and D. S. Judge. 2000. *Longevity Records: Life Spans of Mammals, Birds, Reptiles, Amphibians and Fishes*. Vol. 8, Odense University Press, Odense, Denmark.

Carey, J. R 1993. *Applied Demography for Biologists*. Oxford University Press, New York.

Carey, JR, Tuljapurkar S, Wachter K. (Eds) 2012 Special Issue: Biodemographic determinants of lifespan. *Experimental Gerontology* **47**, 755-813.

Carey JR, Tuljapurkar S. (Eds) 2003. Life Span: Evolutionary, Ecological and Demographic Perspectives. pp 320, *Population and Development Review*, New York.

Carey JR, Robine J-M, Michel J-P, Christen Y. (Eds) (2005) *Longevity and Frailty*. Springer-Verlag, Berlin.

Carey, J. R., P. Moyle, M. Rejmanek and G. Vermeij. (Eds) 1996. Special Issue: Invasion Biology. *Biological Conservation* **78**:1-214.

## JOURNAL ARTICLES, BOOK CHAPTERS, ENCYCLOPEDIA ENTRIES

### 2022

Zhou, Zihua, J. R. Carey, et al. The Global Epidemic of *Bactrocera* Pests: Mixed-Species Invasions and Risk Assessment. Annual Review of Entomology (invited; in prep)

Rodovitis, V. G., S. A. Papanastasiou, E. Bataka, C. T. T. Nakas, N. A. Koulousis, J. R. Carey, and N. T. T. Papadopoulos. 2022. Electronic recording of lifetime locomotory activity patterns of adult medflies. *PLoS* **17**(7):e0269940. <https://doi.org/10.1371/journal.pone.0269940>.

Carey, J. R. and D. Harder. 2022. Failure by design: Lessons from the recently rescinded light brown apple moth (*Epiphyas postvittana*) eradication program in California. *Pest Management Science* (submitted)

Chen, H., J. R. Carey, H. G. Müller and J. L. Wang. 2022. Impact of aging on daily activity profiles of female medflies. (in prep)

### 2021

Meng, X., J. Hu, R. E. Plant, T. E. Carpenter, and J. R. Carey. 2021. Distinctive egg-laying patterns in terminal versus non-terminal periods in three fruit fly species. *Experimental Gerontology* **145**.

### 2020

Carey, J. R., and D. A. Roach. 2020. *Biodemography: An Introduction to Concepts and Methods*. Princeton University Press, Princeton.

Diamandidis, A., C. Ioannou, C. T. Nakas, J. R. Carey, and N. T. Papadopoulos. 2020. Differential response to larval crowding of a long and a short lived medfly biotype. *Journal of Evolutionary Biology* **33**:329-341.

Rao, A. S. R. S., and J. R. Carey. 2020. Chapter 9: Human life expectancy is computed from an incomplete sets of data: Modeling and analysis. Pages 379-389 in A. S. R. S. Rao, editor. *Handbook of Statistics: Vol. 43*. Elsevier LTC.

## 2019

- Carey, J. R. 2019. Aging in the wild, residual demography and discovery of a stationary population identity. in R. Sears, R. Lee and O. Burger (eds.), *Human Evolutionary Demography* (Open Book Publishers: Cambridge).
- Carey, J. R., and J. W. Vaupel. 2019. Biodemography. pp 713-746 in D. Poston and M. Micklin (eds.), *Handbook of Population* (2<sup>nd</sup> Ed. Kluwer Academic/Plenum: New York).
- Papadopoulos, N. T., S. A. Papanastasiou, and J. R. Carey. 2019. Effects of early-life protein starvation on longevity and sexual performance of male medfly, *PLoS One*, in press.
- Molleman, Freerk, Juhan Javoš, Robert B. Davis, Melissa Whitaker, Toomas Tammaru, Andreas Prinzing, Erki Õunap, Niklas Wahlberg, Ullasa Kodandaramaiah, Kwaku Aduse-Poku, Ants Kaasik, and James R. Carey. 2019. 'Quantifying the effects of species traits on predation risk in nature: A comparative study of butterfly wing damage', *Journal of Animal Ecology*, 10.1111/1365-2656.13139.
- Rao, A. R. R. S., and J. R. Carey. 2019. On three properties of stationary populations and knotting with non-stationary populations, *Journal of Mathematical Biosciences*, doi.org/10.1007/s11538-019-00652-7
- Rao, A. S. R. S., and J. R. Carey. 2019. Chapter II: Behavior of stationary population identity in two-dimensions: Age and proportion of population truncated in follow-up. in A. S. R. S Rao (ed.), *Handbook of Statistics Vol. 40* (Elsevier LTC).
- Zhao, Z.-H., C. Hui, R. E. Plant, M. Su, T. E. Carpenter, N. T. Papadopoulos, Z. Li, and J. R. Carey. 2019. Life table invasion models: Spatial progression and species-specific partitioning, *Ecology*, e02682.
- Zhao, Z.-H., C. Hui, R. E. Plant, N. T. Papadopoulos, T. E. Carpenter, Z. Li, and J. R. Carey. 2019. The failure of success: Continuous eradication-recurrence cycles of a globally-invasive pest, *Ecological Applications* (in press).

## 2018

- Carey, J. R., S. Silverman, and A. S. R. S Rao. 2018. Chapter 5: The life table population identity: Discovery, formulations, proof, extensions and applications. in A. S. R. S Rao (ed.), *Handbook of Statistics: Integrated population biology and modeling Vol. 39* (Elsevier LTC).

## 2017

- Carey, J. R., N. Papadopoulos, and R. Plant. 2017. The 30-year debate on a multi-billion dollar threat: Tephritid fruit fly establishment in California, *American Entomologist*, 63: 100-13.
- Carey, J. R., N. Papadopoulos, and R. Plant. 2017. 2017. Oriental fruit fly outbreaks in California: 48 consecutive years, 235 cities, 1500 detections—and counting, *American Entomologist*, 63: 232-36.
- Ji, H., H.-G. Müller, N. T. Papadopoulos, and J. R. Carey. 2017. Quantifying functionals of age distribution in the wild by solving an operator equation, *Journal of Mathematical Biology*, 75: 973-84.

## 2016

- Carey, J. R., P. Liedo, J.-L. Wang, H.-G. Müller, Y.-R. Su, C. Xu, and J. W. Vaupel. 2016. Diet shapes mortality response to trauma in old tephritid fruit flies. *PLoS One* DOI:10.1371/journal.pone.0158468.
- Carey, J. R. 2016. Biodemography. The Biomedical & Life Sciences Collection, Henry Stewart talks Ltd, London (online at <https://hstalks.com/bs/3304/>).
- Papadopoulos, N., J. R. Carey, C. Ioannou, H. Ji, H.-G. Müller, J.-L. Wang, S. Luckhart, and E. Lewis. 2016. Seasonality of post-capture longevity in a medically-important mosquito (*Culex pipiens*). *Frontiers in Ecology and Evolution* 4:63 doi: 10.3389/fevo.20016.00063.

## 2015

- Carey, J. R. 2015. *Biodemography*. Encyclopedia of Sociology, 2nd Edition. Wiley Blackwell, New York.
- Harwood, J. F., K. Chen, P. Liedo, H.-G. Müller, J.-L. Wang, A. E. Morice, and J. R. Carey. 2015. Effects of female access and diet on insemination success, senescence, and the cost of reproduction in male Mexican fruit flies (*Anastrepha ludens*). *Journal of Insect Physiology* DOI: 10.1111/phen.12089.

## 2014

- Arlet, M. E., L. A. Isbell, F. Molleman, A. Kaasik, R. L. Chancellor, C. A. Chapman, R. Mänd, and J. R. Carey. 2014. Maternal investment and infant survival in gray-cheeked mangabeys (*Lophocebus albigena johnstonii*) *International Journal of Primatology* 35:476-490.
- Roach, D. A., and J. R. Carey. 2014. Population biology of aging in the wild. *Annual Review of Ecology, Evolution and Systematics* 45:421-443.
- Rao, A. R. R. S., and J. R. Carey. 2014. Generalization of Carey's equality and a theorem on stationary population. *Journal of Mathematical Biology* 71:583-594.
- Johnson, B., and J. R. Carey. 2014. Hierarchy and connectedness as determinants of health and longevity in social insects. in M. Weinstein and M. Lane, editors. *Sociality, Hierarchy, Health: Comparative Biodemography: A Collection of Papers*. National Academies Press, Washington, D.C.
- Carey, J. R., and D. Harder. 2014. Response to Liebhold. *American Entomologist Winter (2014)*:247.
- Carey, J. R., R. E. Plant, and N. T. Papadopoulos. 2014. Response to commentary by Gutierrez et al. *Proceedings of the Royal Society B: Biological Sciences* 281.
- Carey, J. R. and D. Harder. 2014. Clear, present, significant, and imminent danger. Questions for the California light brown apple moth (LBAM) working group (TWG) (*Epiphyas postvittana*: Tortricidae). *American Entomologist (Winter Issue)*.

## 2013

- Valtonen A, Molleman F, Chapman CA, Carey, JR, Ayres MP, Roinnen H. 2013 Tropical phenology: Bi-annual rhythms and interannual variation in an Afrotropical butterfly assemblage. *Ecosphere* 4, 1-28.
- Papadopoulos N, Plant R, Carey, JR. 2013 From trickle to flood: The large-scale, cryptic invasion of California by tropical fruit flies. *Proceedings of the Royal Society of London* 20131466. <http://dx.soi.org/10.1098/rspb.2013.1466>.
- Harwood JF, Vargas RI, Carey, JR. 2013 Leg impairment magnifies reproductive costs in male Mediterranean fruit flies, *Ceratitis capitata*. *Entomologia Experimentalis et Applicata* 147, 73-81.
- Chiu JC, Kaub K, Zou S, Liedo P, Altamirano-Robles LA, Ingram D, Carey, JR. 2013 Deleterious effect of suboptimal diet on sleep-wake cycle in *Anastrepha ludens* manifests itself with age. *Scientific Reports* 3 : 1773 | DOI: 10.1038/srep01773.
- Carey, J. R., P. Liedo, J.-L. Wang, H.-G. Müller, Y.-R. Su, C. Xu, and J. W. Vaupel. 2016. 'Diet shapes mortality response to trauma in old tephritid fruit flies', *PLoS One*, DOI:10.1371/journal.pone.0158468.

## 2012

- Carey, JR, Tuljapurkar S, Wachter K. 2012 Special Issue: Biodemographic determinants of lifespan. *Experimental Gerontology* 47, 755-813.
- Carey, JR, Tuljapurkar S, Wachter K. 2012 Editorial for the Special Issue: Biodemographic determinants of lifespan. *Experimental Gerontology* 47, 755-758.

- Carey, JR, Papadopoulos NT, Papanastasiou S, Diamantidis A, Nakas CT. 2012 Estimating changes in mean population age using the death distributions of live-captured medflies. *Ecological Entomology* **37**, 359-369.
- Carey, JR, Müller H-G, Wang J-L, Papadopoulos NT, Diamantidis A, Kouloussis NA. 2012 Graphical and demographic synopsis of the captive cohort method for estimating population age structure in the wild. *Experimental Gerontology* **47**, 787-791.
- Zou S, Carey, JR, Liedo P, Ingram DK, Yu B. 2012 Prolongevity effects of a botanical with oregano and cranberry extracts in Mexican fruit flies: examining interactions of diet restriction and age. *AGE* **34**, 269-279. (doi:10.1007/s11357-011-9230-8).
- Novoseltsev VN, Michalski AI, Novoseltseva JA, Yashin AI, Carey, JR, Ellis AM. 2012 An age-structured extension to the vectorial capacity model. *PLoS One* **7**, e39479. doi:39410.31371/journal.pone.0039479.
- Molleman F, Kaasik A, Whitaker MR, Carey, JR. 2012 Partitioning variation in duration of ant feeding bouts can offer insights into the palatability of insects: Experiments on African fruit-feeding butterflies. *Journal of Research on Lepidoptera* **45**, 65-75.
- Liedo P, Carey, JR, Ingram DK, Zou S. 2012 The interplay among dietary fat, sugar, protein and acai (*Euterpe oleracea* Mart.) pulp in modulating lifespan and reproduction in a Tephritid fruit fly. *Experimental Gerontology* **47**, 536-539.
- Duyck P-F, Kouloussis N, Papadopoulos NT, Quilici S, Carey, JR. 2012 Exceptional longevity in the tephritid, *Ceratitis rosa*, a close relative of the Mediterranean fruit fly. *Journal of Economic Entomology* **105**, 371-373.

## 2011

- Carey, J.R., 2011. Biodemography of the medfly: Aging, longevity, and adaptation in the wild. *Experimental Gerontology* **46**, 404-411.
- Diamantidis, A.D., Carey, J.R., Nakas, C.T., Papadopoulos, N.T., 2011. Ancestral populations perform better in a novel environment: Domestication of Mediterranean fruit fly populations from five global regions. *Biological Journal of the Linnean Society* **102**, 334-345.
- Diamantidis, A.D., Carey, J.R., Nakas, C.T., Papadopoulos, N.T., 2011. Population-specific demography and invasion potential in the medfly. *Ecology and Evolution* **4**, 479-488.
- Kaasik, A., Molleman, F., Isbell, L., Carey, J.R., Mänd, R., 2011. Social factors increase fecal testosterone levels in wild male gray-cheeked mangabeys (*Lophocebus albigena*). *Hormones and Behavior* **59**, 605-611.
- Kouloussis, N., Katsoyannos, B., Müller, H.-G., Wang, J.-L., Su, Y.-R., Carey, J.R., 2011. Seasonal trends in *Ceratitis capitata* reproductive potential derived from live-caught adult females in Greece. *Entomologia Experimentalis et Applicata* **140**, 181-188.
- Mason, J.B., Cargill, S.L., Griffey, S., Reader, J., Anderson, G.B., Carey, J.R., 2011. Transplantation of young ovaries restored cardioprotective influence in postreproductive-aged mice. *Aging Cell* **10**, 448-456.
- Papadopoulos, N.T., Papanastasiou, S., Müller, H.G., Wang, J.-L., Yang, W., Carey, J.R., 2011. Dietary effects on sex-specific health dynamics of the medfly: Support for the dynamic equilibrium model of aging. *Experimental Gerontology* **46**, 1026-1030.
- Papanastasiou, S.A., Diamantidis, A.D., Nakas, C.T., Carey, J.R., Papadopoulos, N.T., 2011. Dual reproductive cost of aging in male medflies: dramatic decrease in mating competitiveness and gradual reduction in mating performance. *Journal of Insect Physiology* **57**, 1368-1374.
- Zou, S., Liedo, P., Altamirano-Robles, L., Cruz-Enriquez, J., Morice, A., Ingram, D.K., Kaub, K., Papadopoulos, N., Carey, J.R., 2011. Recording lifetime behavior and movement in an invertebrate model. *PLoS One* **6**, e18151.

## 2010

- Boyd, N.B., Carey, J.R., 2010. From one-and-done to seasoned veterans: A demographic analysis of individual career length in Major League Soccer. *Journal of Quantitative Analysis in Sports* 6, DOI: 10.2202/1559-0410.1261.
- Carey, J.R., 2010. Book Review: *Supercentenarians* by H. Maier, J. Gampe, B. Jeune, J.-M. Robine, and J. W. Vaupel. *Population and Development Review* 36, 846-847.
- Carey, J.R., 2010. The Mediterranean fruit fly (*Ceratitis capitata*) invasion of California deepens: Response to an alternative explanation for recurring outbreaks. *American Entomologist* 56: 158-163.
- Carey, J.R., Laursen, J., Glaser, S., Raphael, S., Miller, G., Crawford, J., Lane, T., LiWang, P., Hammond, K., Groves, T., Pittet, J.-F., Stuart, D., Kolaitis, P., Serwer, L., Chen, M., Feer, K., 2010. University of California research seminar network: A prospectus. *PLoS Biology* 8, e1000289.doi:10.1371/journal.pbio.1000289.
- Carey, J.R., Molleman, F., 2010. Reproductive aging in tephritid fruit flies. *Proceedings of the New York Academy of Sciences* 1204, 139-148.
- Duyck, P.-F., Kouloussis, N., Papadopoulos, N.T., Quilici, S., Carey, J.R., 2010. Exceptional longevity in the tephritid, *Ceratitis rosa*, a close relative of the Mediterranean fruit fly. submitted.
- Duyck, P.-F., Kouloussis, N., Papadopoulos, N.T., Quilici, S., Wang, J.-L., Jiang, C.-R., Müller, H.-G., Carey, J.R., 2010. Lifespan of a *Ceratitis* fruit fly increases with higher altitude. *Biological Journal of the Linnean Society* 101, 345-350.
- Mason, J.B., Cargill, S.L., Anderson, G.B., Carey, J.R., 2010. Ovarian status influenced the rate of body-weight change but not the total amount of body-weight gained or lost in female CBA/J mice *Experimental Gerontology* 45, 435-441.
- Molleman, F., Whitaker, M.R., Carey, J.R., 2010. Rating palatability of butterflies by measuring ant feeding behavior. *Entomologische Berichten* 70, 52-62.
- Papadopoulos, N.T., Liedo, P., Müller, H.-G., Wang, J.-L., Molleman, F., Carey, J.R., 2010. Cost of reproduction in male medflies: The primacy of sexual courting in extreme longevity reduction. *Journal of Insect Physiology* 56, 283-287.

## 2009

- Arlet, M.E., Carey, J.R., Molleman, F., 2009. Species, age and sex differences in type and frequencies of injuries and impairment among four arboreal primate species in Kibale National Park, Uganda. *Primates* 50, 65-73.
- Arlet, M.E., Grote, M.N., Molleman, F., Isbell, L.A., Carey, J.R., 2009. Reproductive tactics influence cortisol levels in individual male gray-cheeked mangabeys (*Lophoccebus albigena*). *Hormones and Behavior* 55, 210-216.
- Carey, J.R., 2009. Book review: *Mortal Coil: A Short History of Living Longer* by David Boyd Haycock. *Population and Development Review* 35, 828.
- Carey, J.R., Liedo, P., Müller, H.-G., Wang, J.-L., Yang, W., Molleman, F., 2009. Leg impairments elicit graded, sex-specific demographic response of the tephritid fruit fly *Anastrepha ludens*. *Experimental Gerontology* 44, 541-545.
- Carey, J.R., Scott, T.W., Zalom, F.G., Hammock, B.D., Leal, W.S., 2009. Rethinking departments of entomology. *American Entomologist* 55, 88-90.
- Carey, J.R., Vaupel, J.W., 2009. Biological demography, in: Yi, Z. (Ed.), *Encyclopedia of Life Support Systems*. Eolss Publishers, Oxford.

- Diamantidis, A.D., Papadopoulos, N.T., Nakas, C.T., Wu, S., Müller, H.-G., Carey, J.R., 2009. Life history evolution in a globally-invading tephritid: Patterns of survival and reproduction in medflies from six world regions. *Biological Journal of the Linnean Society* 97, 106-117.
- Kouloussis, N.A., Papadopoulos, N.T., Müller, H.-G., Wang, J.-L., Mao, M., Katsoyannos, B.I., Duyck, P.-F., Carey, J.R., 2009. Life table assay for assessing relative age bias in medfly capture methods. *Entomologia experimentalis et applicata* 132, 172-181.
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