

## Dong Liang

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### A. Professional Preparation

Shanghai Institute of Technology	P.R.China	Computer Science,	B.S.	2000
University of Minnesota Duluth	U.S.	Applied Mathematics	M.S.	2003
University of Iowa	U.S.	Statistics	Ph.D.	2009
University of Iowa	U.S.	Spatial Epidemiology		2010-2014

### B. Appointments

2010-2011 Postdoctoral Research Scholar, Geography, University of Iowa  
2011-2014 Postdoctoral Research Scholar, Epidemiology, University of Iowa  
2014-pres Research Assistant Professor, CBL/UMCES

### C. Products

**Liang, D.**, & Kumar, N. (2013). Time-space Kriging to address the spatiotemporal misalignment in the large datasets. *Atmospheric Environment*, 72, 60-69.

Kumar, N., **Liang, D.**, Comellas, A., Chu, A. D., & Abrams, T. (2013). Satellite-based PM concentrations and their application to COPD in Cleveland, OH. *Journal of Exposure Science and Environmental Epidemiology*, 23(6), 637-646.

Feng, D., **Liang, D.**, & Tierney, L. (2014). A unified Bayesian hierarchical model for MRI tissue classification. *Statistics in medicine*, 33(8), 1349-1368.

Kumar, N., **Liang, D.**, Chen, J. & Chen, J. (2013) ltsk: an R package for local time space kriging. (<https://cran.r-project.org/web/packages/ltsk/index.html>).

Siskey, M. R., Lyubchich, V., **Liang, D.**, Piccoli, P. M., & Secor, D. H. (2016). Periodicity of strontium: Calcium across annuli further validates otolith-ageing for Atlantic bluefin tuna (*Thunnus thynnus*). *Fisheries Research*, 177, 13-17. UMCES Cont. No. 5157.

Kumar, N., Linderman, M., Chu, A. D., Buda, T., Tripathi, S., Foster, A. D., & **Liang, D.** (2016). Delhi's Air Pollution-(Re) distribution and Air Quality Regulations. *Environmental Policy and Law*, 46(1), 77.

**Liang, D.**, Linderman, M., Cowles, M.K. (2016). Bayesian MODIS NDVI back prediction by intersensor calibration with AVHRR. *Remote Sensing of Environment*, 186, 393-404.

Testa, J.M., L.A. Harris, W.R. Boynton, C.L.S. Hodgkins, J.L. Humphrey, M.C. Day, and **D. Liang**. (2016). Ecosystem Processes Component (EPC). Maryland Chesapeake Bay Water Quality Monitoring Program, Level 1 report No. 33. Jul. 1984 – Dec. 2015. Ref. No. [UMCES] CBL 2016-079. [UMCES Technical Series No. TS-701-16]

Harris, L., T. Fisher, J. Hagy, **D. Liang**, M. Sutula. (2016). Scientific and Technical Advisory Committee Peer Review for the James River Chlorophyll-a Criteria Re-evaluation. STAC

Publication Number 16-007, Edgewater, MD. 41 pp. Ref. No. [UMCES] CBL TS-697-16.

Simpson, C., Bi, H., **Liang, D.**, Wilberg, M., Schueller, A., Nesslage, G., Walsh, H., Spawning locations and larval dispersal of Atlantic Menhaden during 1977-2013. *ICES Journal of Marine Science*.

Bembe, S., **Liang, D.**, Chung, S.I, Optimal temperature and photoperiod for the spawning of blue crab, *Callinectes sapidus*, in captivity. 48(11), 5498-5505, *Aquaculture Research*.

**Liang, D.**, Nasslage, G., Wilberg, M., Miller, T. (2017). Bayesian Calibration of Blue Crab (*Callinectes sapidus*) Abundance Indices based on Probability Surveys. 22(4), 481-497. 10.1007/s13253-017-0295-4. *Journal of Agricultural, Biological, and Environmental Statistics*.

Maurer, L., **Liang, D.**, & Chung, J. S. (2017). Effects of prey densities and dietary supplementation on the larval development of the blue crab *Callinectes sapidus* Rathbun, 1896 (*Brachyura: Portunidae*). *Journal of Crustacean Biology*, 37(6), 674-682.

D. Synergistic Activities

- 1) Develop University of Maryland Marine and Estuarine and Environmental Science graduate courses on environmental statistics: MEES 698B, MEES 708M, and MEES 608R.

Course No.	Title	Institution	Semester	Enrollment	Credit Hrs.	Co-Instructors	No. Lectures
MEES698F	Introduction to R	UMCP	Winter '14	8	1		10 sessions*
MEES698B	Environmental Statistics I	UMCP	Spring '15	17	3	Lyubchich	15 sessions*
			Fall '15	17	3	Lyubchich	15 sessions*
			Fall '16	20	3	Lyubchich	15 sessions*
			Fall '17	33	3		30 sessions*
MEES708M	Environmental Statistics II	UMCP	Spring '16	19	3	Lyubchich	15 sessions*
			Spring '17	10	3	Lyubchich	15 sessions*
MEES608R	Applied Bayesian Statistics	UMCP	Spring '16	19	1		15 sessions*
			Spring '17	9	1		15 sessions*

\*Organized course and responsible for grades

- 2) Manuscript reviewer for *Journal of Exposure Science and Environmental Epidemiology*; *Soil and Sediment Contamination*; *Statistics in Medicine*; *Stochastic Environmental Research and Risk Assessment*; 2016 Climate Informatics workshop
- 3) Chesapeake Bay Program Review Panel for James River Chlorophyll a Criteria Re-assessment