

## Jeffrey C. Johnson Biography



**Jeffrey C. Johnson** is a Senior Scientist at the Institute for Interdisciplinary Coastal Science and Policy and is a Professor of Sociology at East Carolina University. He also holds adjunct positions in Anthropology, Biology and Biostatistics. He received his PhD in social science from the University of California, Irvine in 1981. His dissertation research involved an ethnography of a multi-ethnic salmon fish camp in Bristol Bay, Alaska, where he worked as a boat carpenter.

Johnson has been a PI or Co-PI on 47 externally funded projects involving approximately 5 million dollars during his time at East Carolina University. He has been active in research projects funded by *Sea Grant* and the *National Oceanic and Atmospheric Administration* for more than two decades studying various aspects of coastal and marine resource management. A great deal of his work has involved an extensive long-term research project supported by the *National Science Foundation* comparing group dynamics of overwintering crews at the American South Pole Station, with those at the Polish, Russian, Chinese, and Indian Antarctic Stations. On the more practical side, these stations represent a human space analog environment, and their study contributes to a better understanding of the factors influencing human group dynamics in isolated and extreme environments such as outer space. On the theoretical side, this work furthers our understanding of universal organizing principles in social networks. Working closely with biologists in the marine area, Johnson has become interested in network models of complex biological systems applying concepts developed in social networks to the study of ecological networks. His most recent effort in this area concerns the application of continuous time Markov chain models for the study of trophic dynamics in food webs. His current research involves the development and testing of cognitive models of Iñupiaq understandings of the Kotzebue Sound ecosystem in the arctic.

Johnson has published over 80 peer reviewed publications including books, journal articles and book chapters. He has published in such journals as *The Journal of Mathematical Sociology*, *American Anthropologist*, *American Ethnologist*, *Primates*, *Aviation, Space, and Environmental Medicine*, *Journal of Computational and Mathematical Organization Theory*, *Acta Astronautica*, *Human Organization*, *Field Methods*, *Estuaries*, *Human Ecology*, *Social Networks*, *The Journal of Theoretical Biology* and *Social Science and Medicine* to name a few. In 1991, he received the *PRAXIS Award* for the recognition of “outstanding achievement in translating anthropological knowledge into action as reflected in one project” and in 1992, the *Antarctic Service Medal* in recognition of “valuable contributions to exploration and scientific achievement under the U.S. Antarctic Research Program”. He is the founder and Director of the **National Science Foundation Summer Institute for Research Design in Cultural Anthropology** that has been in existence for 14 years and has served over 200 PhD students in cultural anthropology. The founder and former Editor-in-Chief of the *Journal of Quantitative Anthropology*, he is currently an associate editor at *The Journal of Social Structure* and the co-editor of the journal *Human Organization*. He is a member of the *National Academies of Science Committee* on “Organizational Modeling from Individuals to Societies” and the editorial boards of the journal *Field Methods*, the *Open Sociology Journal* and the *Developing Qualitative Inquiry* series for Left Coast Press.