



**Assoc. Prof. Dr. Zeynep
Kalaylioglu**
Dept. of Statistics

Expertise areas:

- Site-specific estimation and probabilistic forecast of wind speed and direction
- Short-term probabilistic wind power forecasting

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Recent Projects:

“Bayesian Modeling for Multi-modal Circular Data”, *Funding Agency:*
OYP: In this project a Dirichlet process based Bayesian approach is developed to estimate the characteristics of and forecast short-term multi-modal wind direction data.

Recent Publications:

- Kılıç, M.B., Kalaylioglu, Z., SenGupta, A., 2016, “Bayesian Circular Nonparametric Modelling: Application to Characterize Site-Specific Wind Direction,” *submitted to J. of Agricultural, Biological and Environmental Statistics*.
- Kalaylioglu, Z., 2013, “The Statistics of Wind,” *The World of Statistics*, worldofstatistics.org