Outline

1. Introduction
   1. Environmental mixtures
      1. Contextualize within epidemiological research
      2. Difficult b/c of high-dimensionality, collinearity, non-additivity, nonlinearity, small effect sizes, small sample sizes
   2. Interactions
      1. Synergistic, additive, antagonistic
   3. Define questions of interest
2. Humanistic perspective
3. Bayesian methods
   1. Bayesian kernel machine regression
      1. Kernel machine regression
      2. Variable selection
      3. Priors
      4. Algorithm (MCMC)
      5. Tools for visualization
   2. Bayesian semiparametric regression
      1. Spline basis
      2. Variable selection
      3. Sparsity inducing prior
      4. Algorithm
      5. Inference on interactions
   3. Bayesian factor analysis?
4. Simulation
   1. Methods
   2. Results
   3. Discussion
5. Application (IF TIME)
   1. Methods
   2. Results
   3. Discussion
6. Conclusion