* Introduction
* Theoretical background
  + Neural Networks
  + Bayesian NN
  + Uncertainty estimation with BNN
    - Aleatoric uncertainty
    - Epistemic uncertainty
* Case study
  + Dataset
  + Network architecture
  + Training
    - ANN
    - BNN
  + Performance
* Classification with uncertainty
  + Aleatoric uncertainty (p\*(1-p))
  + Epistemic uncertainty
  + Distribution’s variance
  + Uncertainty penalization
* Robustness
  + Definition
  + Robustness of deterministic NN
  + Robustness of a Bayesian NN
    - Diverse alternative
* Robustness evaluation
  + Alterations
  + Robustness without uncertainty
  + Robustness with uncertainty
    - Aleatoric uncertainty
    - Distribution’s variance
  + Discussion
* Conclusion
  + Future work