• Analyze numerically the transformation based cloaking scheme for E-M in the quasistatic regime

  i) Prove numerically that the scheme works (2D is ok).

  ii) Study numerically the stability of the scheme.

  iii) Study numerically what is happening if one allows the material in the cloak to be dissipative.
**Project 2 - Team 2**

Christine (Ma)
Patrick (Ma)
Jacob (ME)
Justin (Ph)

- Analyze numerically the approximate cloaking scheme for E-M in the quasistatic regime.
  
  i) Prove numerically in 2D that the cloaking scheme works within an error of order $p^2$ for $p<1$.

  ii) What are the eigenvalues of the conductivity matrix in the cloak near the boundary of the cloaked region?

  iii) Study numerically what is happening if one allows the material in the cloak to be dissipative.