Figure 1: Grasshopper networks connecting Rhino and VARYLAB. In the first step we send mesh data to VARYLAB running on the same machine at `localhost:6789` (left). In the second step we collect the result from this VARYLAB instance and create polygons from the mesh's faces (right).

1 Implementation

We use the software package VARYLAB, [Sechelmann and Rörig 2013], in combination with Rhino's Grasshopper to calculate discrete conformal maps to the cylinder shown in Figure **??**. Figure 1 shows the Grasshopper network used to connect Rhino and VARYLAB. VARYLAB uses the optimization package TAO/PETSC, see [Benson et al. 2007, Balay et al. 2011, Sommer 2010], to perform energy minimization.

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