beyond postmortem descriptions
natural language generation for historical figures

Katrine F Baunvig & Kristoffer L Nielbo
chcaa.io

Grundtvig Study Center & Center for Humanities Computing Aarhus University
Outline

1 data

2 psychological description

3 neural description

4 neural simulation
Figure 1: N.F.S. Grundtvig, 1783-1872, 1170 text objects → influential writer, graphomania, distinct phases in writings

Figure 2: Keyword queries on time and document - naive compositional assumption → “atoms of meaning”
Figure 3: Developmental trajectories of creativity and affect with distinct phases

Figure 4: Comparison of Grundtvig, Andersen og Kierkegaard’s creative trajectories


Figure 5: Neural embeddings in a hierarchical semantic graph centered on \{heaven, earth, hell\}

stage 3 neural reconstruction

Figure 6: Recurrent neural network that learns Grundtvig’s language from sub-word data.
Thank you for your attention