Thanks for having me this opportunity, I really appreciate your time.

My name is Davut Ayan.

I have been working as an economist specialized in applied labor and policy-oriented topics since I received my PHD degree in economics from University of Kansas. I am mainly interested in this area because I can apply my statistical knowledge to analyze data on social problems and public policy.

Currently, I am working as a researcher at the institute for policy and social research at the university of Kansas.

In this position:

* I have been collecting, manipulating, visualizing, analyzing data
* I have been using R, STATA and Python for most of the data work including estimation, when working with a database I use SQL to import data

In terms of statistical methods, in our projects I have been extensively use causal inference models, Difference-in-Differences, Synthetic Control, Regression Discontinuity, Propensity score matching methods and instrumental variables.

Beside causal models, I have experience in supervised and unsupervised machine learning algorithms including linear and logistic regression, A/B testing, classification, Natural language processing and clustering methods.

In order to keep myself up to date, I am eager to learn new tools and apply them to my works.

I received my phd degree in economics from university of Kansas. In my dissertation, I wrote three articles using quantitative analysis. I investigated causal impact of military experience on the labor market outcomes of veterans using cross-sectional data and statistical models including Instrumental variable estimation, linear probability. Also, in a quasi-experimental design, I estimated the average treatment effect of a federal wage subsidy program on the US veteran’s employment outcomes using difference-in-differences.

* I got my bachelor’s degree in systems engineering and industrial engineering and graduated at top 1%.
* I worked in the ministry of defense as operation analyst and got awarded a 5-year long scholarship to pursue PHD education in economics.
* I am interested to learn new ideas, methodologies in statistics and technology.
* I am self-motivated and enthusiastic learner. I have been learning new tools from online course platforms and receiving certificates.

Projects:

1. **TANF Project:** Impact of party affiliation of a governor and legislatures on social safety net programs. My role was to extracted data from several data sources, manipulating and cleaning, merging datasets to gather and perform the analysis. I met with the collaborator weekly to update her about the progresses I have made. We have tried several methods to estimate the effect including difference in differences, linear regression and non-parametric regression discontinuity design. We find out more restrictive policies associated with republican governors and legislatures. This project is about to end soon and will start to write down the as a research article.
2. **Innovation Capacity project:** This is a joint project with two collaborators, we investigated determinants of researcher and innovation capacity of countries covering over 150 countries. I collected several datasets from online sources on various sources and cleaned, visualized and analyzed dataset for my non-statistical collaborator. I have to explain every detail for her to understand and move from there. This project helped me practice translating my statistical knowledge and findings to non-technical audience.
3. **Medicaid expansion:** This is a joint project analyzing the effect of non-expanding Medicaid in Kansas. Other collaborator is health economist working in Sweden. I collected data from several sources, cleaned and visualized then apply synthetic control methodologies. This project still continues and progress report is presented to government officials.