Dear Sir,

I am a third year PhD student in Economics at the University of Minnesota. Through Professor V.V. Chari, I got to know about the Heterogeneous-Agent Macro Workshop in June 2022 to be hosted by National Bureau of Economic Research. Please consider this cover letter along with the statement of purpose and CV attached as my application.

In my first year of coursework in the PhD program, I took the courses in the mandatory Macroeconomics sequence. In my second year, I was the Teaching Assistant(TA) for the first-year Macroeconomics sequence. This provided me extra opportunities for engaging deeply with the material covered in the courses. As a result of that, I am fairly well-trained in the standard textbook techniques and models, in particular, dynamic programming and New Keynesian models.

In my view, the workshop will be a great learning experience for me. It will augment my skillset and expose me to the frontiers of current research. I have followed the research of the instructors of the workshop and hope to learn a great deal from them. The statement of purpose on the next page tells of my motivation for participating in the workshop.

My reference is Professor V.V. Chari who is also my advisor at the department. Please find my contact details and reference of Professor Chari below.

Thanks,

Amol Amol
2300 East Franklin Avenue, Apt A223
Minneapolis, Minnesota, 55406

Email:- amol0002@umn.edu
Phone:- 6124074460

Reference:- Dr. V.V. Chari (email:-chari002@umn.edu)

Statement of Purpose

The macro-intensive coursework in my first two years of my PhD program, and the second year field courses in Public Economics and Monetary Economics in particular, kindled my interests in questions of Public Finance. Right now, I am a Research Assistant to Dr. Juan Pablo Nicolini at the Federal Reserve Bank of Minneapolis. This work has provided me further exposure to the current research in monetary economics.

One of the topics I am interested in is public debt management and whether the government can roll over its debt when r<g. However, it has also been argued in the literature that the fiscal policy can't be independent of monetary policy and monetary and fiscal policy interactions are important. So, I am also interested in these questions of monetary and fiscal interactions and their implications on debt sustainability and the bounds on deficits. Another topic of interest is the role of political economy frictions in optimal taxation. Right now, this is the broad topic for my third-year paper.

I think attending the workshop will be a significant learning experience for me. Right now, I have research interests and potential questions. The workshop will provide me with the adequate tools that I need to address these questions. If I were to learn all these tools on my own, it would take me much more than 3 days. An intensive 3-day workshop is a great opportunity to learn stuff which would take much more time if I were to do it on my own. Moreover, getting familiar with the frontier of the current research in heterogeneous agent models is one more reason to join the workshop. The main incentive for me is the practicality of the workshop. The practical/hands-on computational training offered in the workshop will enhance my computational skills. I look forward to participating in the workshop in the case of being accepted.

Amol

EDUCATION

- **Ph.D in Economics(2019-2024)**
  University of Minnesota
- **Masters of Science in Quantitative Economics(2017-2019)**
  Indian Statistical Institute, Delhi
- **Bachelor of Technology in Computer Science and Engineering(2011-2015)**
  Indian Institute of Technology Delhi

RESEARCH INTEREST

- Macroeconomics and Public Finance

HONORS AND AWARDS

- Silverman Fellowship in recognition of academic performance as a first-year student at the University of Minnesota
- Dr. Harald Uhlig Award in Macroeconomics, for the best score on the Fall 2020 Macroeconomics prelim at the University of Minnesota
- Gold medal for outstanding performance in the MSQE program 2017-19 at ISI Delhi

OTHER ACADEMIC ACHIEVEMENTS

- All India Rank of 41 in IIT-JEE 2011 among 0.5 million aspirants
- All India Rank of 243 in AIEEE 2011 among 1.1 million aspirants

RESEARCH EXPERIENCE

- Research Assistant to Dr. Juan Pablo Nicolini at the Federal Reserve Bank of Minneapolis

TEACHING EXPERIENCE

- Teaching Assistant for first-year Graduate Macroeconomics sequence Econ 8105-8108

COMPLETED COURSES IN MACROECONOMICS

- First year Macroeconomics sequence, Public Economics, Monetary Economics, International Trade, Economic Growth, Miscellaneous Topics in Macroeconomics

WORK EXPERIENCE

Software Engineer at Samsung R&D Institute India, Noida (July 2015-July 2017)

- Was part of Keyboard and Direct Pen Input team for Samsung smartphones

Bitmapper Integration Technologies, Pune, India (Summer Intern 2014)

- Was part of application development team for embedded systems

TECHNICAL SKILLS

- **Programming Languages**: C, C++, Java, R, Python, STATA, MATLAB
- **Softwares**: LaTeX, MySQL