



Contact Information:
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SHYAAM RAMUMAR CURRICULUM VITAE

PROFESSIONAL PROFILE

Passionate about uncovering efficient, sustainable, and circular interactions within complex systems that optimise economic, environmental, and social benefits. Particularly interested in the role of digital technology and agent-based models to analyse complex systems and optimise interactions within these systems to yield circular and resource efficient outcomes

EDUCATION

UNIVERSITY OF MILAN

MILAN, IT

PhD in Economic Sociology and Labour Studies

Oct 2018 - present

- Developing simulation models of value chain actors using a hybrid of Material Flow Analysis and Agent-Based Modelling to identify optimal policies and interventions that yield circular and resource efficient outcomes across complex value chains

NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

TRONDHEIM, NO

Master of Science in Industrial Ecology

Aug 2012 - Jun 2014

- Received an A in all courses related to the Industrial Ecology Master's Program
- Relevant Courses: Life Cycle Assessment; Industrial Ecology; Environmental Management and Corporate Governance; Material Flow Analysis; Input-Output Analysis
- Master's Thesis and Project with the International Aluminium Institute to develop a global aluminium model to detail the flow of aluminium and its strategic implications
- Assessed Statoil's key HSE indicators and recommended improvements
- Partnership Director at TEDxTrondheim, Co-organizer for element6 Sustainable Career Day, Vice President of Symbiosis student group, Natural Resources Workshop Leader for International Student Festival in Trondheim 2013

NORTHWESTERN UNIVERSITY

CHICAGO, USA

Bachelor of Arts in Economics, Mathematical Methods

Aug 2004 - Jun 2007

- GPA: 3.8 out of 4.0 - Graduated Cum Laude (Top 15%)
- Relevant Courses: Economic theory; Econometrics; Industrial Organization; Game Theory
- Graduated in 3 years instead of 4 years due to advanced courses taken during high school
- Member of Phi Beta Kappa Honor Society. Undergraduate Leadership Program graduate. Logistics Manager: Undergraduate Business Conference. Secretariat: Model United Nations. Treasurer: Journal of International Affairs. Member Institute for Student Business Education. Participant Chicago Field Studies

LONDON SCHOOL OF ECONOMICS

LONDON, UK & BEIJING, CHINA

Summer School

Jun 2006 - Aug 2006

- Courses in London focused on Development Economics, Microeconomics and Game Theory
- Additional course in Beijing, China focused on Entrepreneurship

EXPERIENCE

CIRCLE ECONOMY

AMSTERDAM, NL

Knowledge and Innovation Manager

Sep 2014 - Sep 2018

- Developed [key elements](#) of the circular economy relevant to businesses and currently developing a thought piece on linear risks
- Developed an [assessment tool](#) to help companies find a starting point for circular transition
- Launched a [Knowledge Hub](#) of 750+ circular examples and case studies around the world
- Creating a digitized Innovation Process to guide companies through circular transition
- Developing circular Ideation and Incubation solutions as part of a global online platform
- Developed a new methodology to measure the level of [circular jobs](#) in the Netherlands
- Initiated an [accelerator program](#) to support the growth of emerging circular start-ups
- Analysed financial and non-financial [business cases](#) for circular intervention
- Co-authored various reports on the circular economy (see [LinkedIn](#))

ELLEN MACARTHUR FOUNDATION

COWES, UK

Summer Intern

Jun 2014 - Aug 2014

- Assessed the business case of circular business models within agriculture by identifying the economic and environmental benefits
- Explored the potential barriers and success stories of implementations of these business models across the world, to uncover scalability for more widespread adoption

ACCENTURE

CHICAGO, USA

Sustainability Consultant

Mar 2010 - Jun 2012

- Seconded to World Economic Forum Urban Development and Infrastructure team to pilot a Partner Cities program with Tianjin, China to find solutions to economic transition challenges
- Developed tools to assess renewable energy project feasibility for US energy agency
- Analysed energy and emission reduction opportunities for major industrial companies
- Performed research for thought leadership and business development efforts within the Sustainability Services practice

THE CAMBRIDGE GROUP

CHICAGO, USA

Associate Consultant

Aug 2007 - Mar 2010

- Developed profit maximising strategy recommendations for Fortune 500 companies using statistical models, as well as qualitative and quantitative market research surveys
- Gathered key insights as the data expert on project teams by manipulating large datasets using programs such as STATA, SAS, SPSS, and Excel VBA

ACTIVITIES

PIVOT NONPROFIT CONSULTING

CHICAGO, USA

Executive Chairman

Aug 2007 - present

- Maintain governance, oversight, and long-term vision to ensure that Pivot enables passionate professionals to leverage their business skills to create meaningful social impact for local non-profits

REFUGEES FORWARD*Business Coach***AMSTERDAM, NL***Mar 2018 - Jun 2018*

- Mentor and coach to help newcomer entrepreneurs kickstart their businesses. Provided guidance from a circular economy, sustainability, and strategy perspective

ENACTUS VU*Business Advisor***AMSTERDAM, NL***Sep 2016 - Sep 2017*

- Supported student entrepreneurs in the Enactus program at VU University with strategic business advice during monthly meetup sessions

REPORTS AND PUBLICATIONS

- [A regionally-linked, dynamic material flow modelling tool for rolled, extruded and cast aluminium products](#)

Research paper presenting a global aluminium flow modelling tool to give the aluminium industry the ability to evaluate the potential to recycle aluminium scrap most efficiently

- [The Circular Dairy Economy](#)

Report exploring the pathways for the Dutch dairy sector to transition to the circular economy, including through high-tech farming

- [On the Road to a Circular Car](#)

Report investigating the trends in consumer demand and advances in technology in the automotive sector, and how these can influence the future circularity of the industry

- [Linear Risks](#)

Essay written in collaboration with PGGM, KPMG, EBRD, and WBCSD that demonstrates the real business threats linear economic business practices are creating.

- [Circular Jobs: Understanding Employment in the Circular Economy in the Netherlands](#)

Report that presents a standardised and replicable methodology to measure circular employment in cities around the world

- [The Heterogeneous Skill-base of Circular Economy Employment](#)

Paper that examines the opportunities and risks of employment, skills and education that are related to a circular economy (CE) in the United States

- [The Circularity Gap](#)

Report presenting a methodology to measure a metric for the circular state of the planet

- [Circular Economy: A key lever in bridging the emissions gap to a 1.5°C pathway](#)

White paper that informs on key circular strategies that can help achieve the targets set in the Paris Agreement and close the global emissions gap

LANGUAGE

English (native), Tamil (limited), Norwegian (elementary), Dutch (elementary), German (elementary), Italian (elementary)

CITIZENSHIP

US Citizen with Italian D Visa