

# Vincenzo Luciano Rosati Opazo

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Birth day: 12/09/1996

## EDUCATION

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### Universidad Técnica Federico Santa María (UTFSM)

MSc in Industrial Engineering

BSc in Industrial Engineering

Valparaiso, Chile

2020 - 2023

2015 - 2019

## EXPERIENCE

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### Undergraduate Teaching Assistant

Centro Integral de Aprendizaje y Ciencias Básicas

UTFSM

2016 - 2022

- Courses related to differential and integral calculus. Lectures sessions were conducted.
- Courses related to fundamentals of physics. Lectures sessions were conducted.
- Courses related to college algebra & trigonometry explained. Lectures sessions were conducted.

### Undergraduate Teaching Assistant

Departamento de Industrias / Energy Conversion and Combustion Group

UTFSM

2019 - 2022

- Course related to heat transfers. Lectures, laboratory and programming sessions were conducted.

### Undergraduate Teaching Assistant

Departamento de Industrias

UTFSM

2019

- Course related to linear optimization. Lectures and programming sessions were conducted.

## PARTICIPATION IN PROJECTS

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### Programa de Cooperación Internacional (PCI) NSFC 190009

2020 - 2022

- Project name: Revealing Soot Chemistry in the Combustion of Biofuels for Jet Applications.
- Participated as thesis student.
- Performing experimental measurements of soot formation from jet fuel in a laminar diffusion flame.

## PUBLICATIONS

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### IN CONFERENCES

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- **Dynamic modeling and control of a platular heat exchanger for blanching processes.**

Conference: 16th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics and Editorial Board of Applied Thermal Engineering.

Authors: *F. Escudero, V. Rosati, M. Cortés, G. Febres, G. Carvajal and A. Fuentes*

Status: Presented and under review.

### IN JOURNALS

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- **Soot properties characterization of aviation Jet A-1 laminar non-premixed coflow flame.**

Authors: *V. Rosati, J.J. Cruz, F. Escudero, C. Barrera, D. Chen and A. Fuentes*

Journal: *Experimental Thermal and Fluid Science (Special Issue MCS12)*

## TECHNICAL SKILLS

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### Programming:

- Main used regularly: Python ,  $\text{\LaTeX}$ .
- Main used intermittenly: MATLAB, AMPL, R Programming Language, Wolfram Mathematica, MySQL.

**Software and others:** RETScreen Clean Energy Management Software, Autodesk Inventor - Fusion 360, HelioSense and Andor Solis.

**Languages:** Spanish (Native), English (Intermediate).