

# Vivien Darras

Geotechnical Engineer



## Profile

42 years old  
Seniority : 6 years, associate  
English

Soil mechanics

Foundations - settlements

Reinforcement -  
underpinning

Railway Civil Engineering

## Education

**Engineering degree – National School of Public Works (ENTPE)**  
Vaulx en velin

## Professional background

### CEREMA

Technical central service of the Ministry of Ecological and Solidarity Transition.  
Geotechnical Engineer

### SNCF

#### Engineering Branch Department of Structures / Geotechnical Engineer

Design / monitoring of geotechnical works: ROSA PARKS railway station, Nice Saint Augustin railway bridge  
Inspection and repair of existing structures: retaining wall, foundation  
Soil investigation : design and monitoring of works : Charles de Gaulle Express project

### SNCF

#### Engineering Branch Department of Structures / Chief Geotechnical Engineer

Technical, financial and supervision management of geotechnical engineering missions (G2, G4 and G5) : connection works with the stations of the Grand Paris (Chelles, Sevran Livry, Vert de Maison, Ardoines)  
Diagnosis and assessment of recent and existing railway structures  
Member of the french standardization committee of geotechnical structures  
Trainer (Pont formation Conseil) and Teaching (ESTP)

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## Key areas of expertise

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### **Geotechnical Sciences – Foundations – Civil Engineering**

- Foundation underpinning
- Foundation pathologies and repairs
- Retaining structures pathologies and repairs
- Impact of works on the environment (settling, raising, vibration)
- Civil engineering in a railway environment: construction, design and inspection of works of art
- Injection soil treatments
- Slope stability
- reinforced earth works
- Soil-structure interaction on former quarries or gypsum dissolution zones
- Ground and water drilling, laboratory soil test
- Paving and pavement shifting
- construction of a work of art