

Julietta exploradora

[El Proyecto](#)

[¡ Concurso !](#)

[Noticias](#)

[Niñas y Ciencia](#)

[¡Contáctanos!](#)



Proyecto Explora CONICYT de Valoración  
y Divulgación de la Ciencia y la Tecnología - 2015



explora FONDAP



fcm

FACULTAD DE CIENCIAS  
FÍSICAS Y MATEMÁTICAS  
UNIVERSIDAD DE CHILE



(CR)<sup>2</sup>





## THE PROJECT

***“Julieta in the Land of Girls”* is an Explora CONICYT project for the Appreciation and Popularization of Science and Technology – 2015, sponsored by the Faculty of Physical and Mathematical Sciences at the University of Chile.**

### What is it?

It's a field kit for girls (ages 7 to 11) designed to encourage and motivate them to make observations, ask questions, and take measurements of their surroundings, and then record them.



### Who is Julieta?

Julieta is a popular Chilean comic book character, a teenage girl created by illustrator Florencia Oliveros in 2003. For this project, a version called "Julieta in the Land of Girls" was created.







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### **Why was this project created?**

We aim to promote Chilean girls’ interest in science by providing tools that introduce them to the scientific method through play, as an alternative to tea and ironing sets, for example, that are commonly offered in the market. Childhood toys play a key role in shaping roles and identity. Another key motivation for this project is the gender gap and inequality in the number of women working in science in Chile.

### **What are Julieta’s topics?**

The *“Julieta in the Land of Girls”* set invites girls to observe three main themes:

- Climate (rain and clouds)
- Geology (Andes Mountains and rocks)
- Biodiversity (animals and plants)





## TEAM



### **Sofía Otero Cavada**

#### *Director*

Sofía is a journalist specialized in science communication. She leads communication and outreach at CEGA (FONDAP Center of Excellence in Andean Geothermal Energy) and the Millennium Nucleus for Metal Tracers.



### **Nélide Pohl**

#### *Scientific Advisor*

Neli is an advisor for the science outreach program “6 Sentidos” at the Institute of Ecology and Biodiversity (IEB), University of Chile. She holds a Ph.D. in Ecology and Evolutionary Biology from the University of California, Irvine, and a Master’s in Science Communication from Imperial College London.



### **Nicole Tondreau Lira**

#### *Communications Officer*

Nicole is a journalist and Communications Officer at (CR)2 and the Southern Hemisphere Paleoclimate Millennium Nucleus at the University of Chile.



### **Luz María Fariña Rivas**

#### *Journalist*

Luz is a journalist specialized in science communication. She works on outreach for the Millennium Nucleus CESIEP, Fundación Fungi, and as an external professional at (CR)2.



### **Laura Gallardo Klenner**

#### *Deputy Director*

Laura is an Associate Professor in the Department of Geophysics at the University of Chile and Director of the Center for Climate and Resilience Research (CR)2. She holds a Ph.D. in Chemical Meteorology from Stockholm University (MISU, 1996), where she studied lightning and oxidized nitrogen under the supervision of Professor Henning Rodhe.



### **Linda Daniele**

#### *Geological Advisor*

Linda is an Assistant Professor in the Department of Geology at the University of Chile and an associate researcher at CEGA and the Millennium Nucleus for Metal Tracers. She holds a Ph.D. in Hydrogeology from the University of Almería (Spain), and has participated in research projects related to water resources, contaminant origins, and groundwater management in heavily exploited areas.



### **Florencia Olivos**

#### *Illustrator*

Florencia holds a degree in Fine Arts from the University of Chile and created the character Julieta in 2003.





## COLLABORATORS

The project “*Julieta in the Land of Girls*” is developed by the following organizations:



CR2 - Center for Climate and Resilience Research  
(CR)2 is a FONDAP-CONICYT Center of Excellence hosted by the University of Chile (FCFM), in collaboration with the Austral University of Chile and the University of Concepción. It focuses on Earth System Science, working in an interdisciplinary way to improve understanding of the system and contribute to enhancing resilience in Chile.



CEGA – Center of Excellence in Geothermal Energy of the Andes  
A FONDAP-CONICYT Center of Excellence at the University of Chile (FCFM), CEGA seeks to improve and expand scientific knowledge about geothermal energy in Chile. Its mission is to promote geothermal energy as a sustainable, environmentally friendly, and economically competitive resource to meet Chile’s and Latin America’s energy needs.



IEB – Institute of Ecology and Biodiversity  
One of nine research institutes established under Chile’s Millennium Scientific Initiative (ICM), IEB aims to transfer scientific research to society and contribute to Chile’s sustainable development. IEB researchers belong to six Chilean universities and two private foundations.



CICAT – Interactive Center for Science, Arts, and Technology  
Based at the University of Concepción in the Biobío Region, CICAT is an open space for science, art, and technology communication, education, and research. It specializes in developing strategies and products that link the university and public and private institutions with society. CICAT is Chile’s largest educational innovation lab and also hosts PAR EXPLORA BIOBIO.

PAR EXPLORA – Regional Associative Project EXPLORA CONICYT  
This project belongs to the Metropolitan South East Zone and is based at the University of Chile.

