

# Foundational Report

November 21, 2019–December 31, 2021

Dimensions  
Sciences Inc.

# Letter From the President

I first came to the United States in February 1997. I had received a scholarship in Brazil to pursue my doctoral studies at the Dana Farber Cancer Institute, part of Harvard Medical School.

When I arrived that day, for the first time I realized that my scholarship would entail not only research but also about learning to live in a new country, experience a new culture, and speak a new language.

The longer I lived in the U.S., the more I realized that scholarship changed the course of my career, changed who I was, and changed what I knew about the world. Getting to know a new culture opened up so much in my life.

My research also opened up opportunities for jobs, as well as professional and personal connections. Today people say I'm a successful scientist, but I'm still learning every day. I still point to that scholarship early in my career. It got me here, opening up opportunities and experiences.

I founded Dimensions Sciences, along with my co-founder Bob Chapman, back in 2019 with that scholarship in mind. I wanted to give back to our community through life-changing scholarships. Now looking back over the last two years since our founding, I am proud of the organization we created, the more than 50 scholarships and awards we have already provided, and the many volunteers who have crossed my path in building Dimensions Sciences.

In 2019, we had no idea how much our lives would change in the coming months and years. We formed Dimensions Sciences just a few months prior to the COVID-19 pandemic; Since then, we have supported students and scientists internationally through mentorship, educational programs, and networking opportunities—directly impacting more than 1,000 individuals. We've reached more than 5,000 followers through social media.

Despite the challenges of these past two years, we've accomplished amazing things. These accomplishments wouldn't have been possible without our volunteers, donors, and supporters. As we plan for 2022 and beyond, we will continue with our mission in mind, working toward a day when we will see diversity, equity, and inclusion in STEM.



Marcia Fournier, Ph.D.  
Founder and President



# Who We Are

## OUR MISSION

Our mission is to assist early-career scientists from underrepresented communities with mentoring programs and scholarships to promote diversity in the sciences to further equity, international collaboration, and innovative research.

Seeing an urgent need for more inclusion of minorities in science and science education in the U.S. and abroad, Marcia Fournier formed Dimensions Sciences along with co-founder Bob Chapman to provide high-impact solutions. Dimensions Sciences is a charity 501(c)(3) organization formed on November 21, 2019.

Our multidisciplinary team of professional and student volunteers is committed to promoting inclusion of minorities in science, technology, engineering, and mathematics (STEM). We take our convictions and turn them into action.

28

number of staff  
as of December 31, 2021

## VOLUNTEERS SHARE THEIR TRAJECTORIES

Our volunteers and interns reflect on diversity: We are four generations, come from different countries, have varied educational experiences, and speak multiple languages.

[youtu.be/ZWdr3cIyNH8](https://youtu.be/ZWdr3cIyNH8)

## CHECK OUT MARCIA'S STORY!

Dimensions Sciences founder, Marcia Fournier, PhD, tells a short story about how she realized the power of scholarships goes beyond professional development.

[youtu.be/cYTyX64\\_gww](https://youtu.be/cYTyX64_gww)



# Board of Directors

## Marcia Fournier, PhD, Founder and President



Marcia is an entrepreneur with more than 20 years of experience leading teams and developing innovative health care products in applying genomics and machine learning. She came to the U.S. many years ago with an international exchange scholarship to pursue her doctoral research in oncology at the Dana-Farber Cancer Institute in Boston. After receiving her Ph.D. from the University of Rio de Janeiro, Brazil, she had the opportunity to work in leading institutions across the U.S., including Lawrence Berkeley National Labs as a postdoctoral fellow and GlaxoSmithKline as principal scientist. Most recently, Marcia led a biotechnology company, Bioarray Genetics, for about 10 years. She lives in Washington, D.C.

## Bob Chapman, Co-Founder and Strategic Director



Bob has 30 years of service in global public policy, grassroots advocacy, and civic engagement. An open-minded collaborator with robust experience at all levels of corporate and organizational management, he is a global citizen who has visited more than 55 countries, experiencing first-hand the hardships and highlights of the human condition. He is an alumnus of Northeastern University, United Nations International School, and George Washington University Graduate School of Political Management. He has lived in Puerto Rico, Costa Rica, Venezuela, and Brazil and is fluent in Spanish and Portuguese. He currently lives in Washington, D.C.

## Marcio Alves Ferreira, PhD



Marcio is a Full Professor at the Department of Genetics, Institute of Biology, Federal University of Rio de Janeiro, Brazil. He teaches postgraduate courses on genetics and plant biotechnology, and is a member of the Federal Commission of Biotechnology at the Coordination for the Improvement of Higher Level Education Personnel (CAPES). He received the Scientist of Our State Award from the Rio de Janeiro State Foundation to Support Research (FAPERJ) and is a Scientist of the National Council for Scientific and Technological Development (CNPq). He has published 74 scientific articles in international journals and has mentored dozens of students during their master and doctoral degrees. He is a testimony to the impact of international exchange scholarship. He currently lives in St. Louis, Missouri.

## Sally Cowal



Sally is an experienced thought leader in global health and international educational exchange. She is a retired U.S. diplomat who served in a variety of foreign service positions in India, Colombia, Mexico, Washington, D.C., and the UN. She served as U.S. Ambassador to the Republic of Trinidad and Tobago. Most recently, she was Senior Vice President, Global Cancer Control, for the American Cancer Society. She has been a key contributor to the public health and nonprofit arenas, co-founding the Joint United Nations Program on HIV/AIDS (UNAIDS) in Switzerland and served on the Board of Directors for the Union for International Cancer Control. She also served on the Fulbright Commission. She is a graduate of DePauw University and George Washington University, where she earned a master's in public administration.



# Scientific Advisory Board



## Mariana Emerenciano, PhD

Mariana graduated in biomedicine at the Federal University of the State of Rio de Janeiro, holds a master's degree in morphological sciences from

the Federal University of Rio de Janeiro, and has a Ph.D. in oncology from the Brazilian National Cancer Institute (INCA). She is an Associate Researcher at the Department of Management and Incorporations of Health Technologies (DGITS/SCTIE). She is a permanent member at the Postgraduate Program in Oncology at INCA, where she leads a research group that studies the causes and consequences of molecular alterations in cancer, focusing on hematological neoplasms. She received the Young Scientist of Our State Award and is a Scientist of the National Council for Scientific and Technological Development (CNPq).



## Marcio Alves Ferreira, PhD

Marcio is a Full Professor at the Department of Genetics, Institute of Biology, Federal University of Rio de Janeiro, Brazil. He teaches postgraduate courses on genetics

and plant biotechnology, and is a member of the Federal Commission of Biotechnology at the Coordination for the Improvement of Higher Level Education Personnel (CAPES). He received the Scientist of Our State Award from the Rio de Janeiro State Foundation to Support Research (FAPERJ) and is a Scientist of the National Council for Scientific and Technological Development (CNPq). He has published 74 scientific articles in international journals and has mentored dozens of students during their master and doctoral degrees. He is a testimony to the impact of international exchange scholarship. He currently lives in St. Louis, Missouri.



## Pedro Massaguer, PhD

Pedro is Chief Executive Officer of 3D Biotechnology Solutions. He is an entrepreneur and consultant working with biotechnology initiatives and innovation project management for the past 10 years

in the private sector and academia. He enjoys developing new businesses from scratch and working on innovative projects. He completed the Ph.D. program in science and technology policy at State University of Campinas and a Master of Business Administration in strategic and economic business management at Fundação Getúlio Vargas. He has been involved in the development of projects in biotechnology, technology-based entrepreneurship, impact assessment and decision support in science, technology and innovation using data science, and commercial and regulatory analysis of advanced therapy products based on tissue engineering.



## Gonçalo Apolinário de Souza Filho, PhD

Gonçalo is a Full Professor at the Laboratory of Biotechnology, Center of Bioscience and Biotechnology at the State University of North Rio de Janeiro, Brazil. He received the

Scientist of Our State Award from the Rio de Janeiro State Foundation to Support Research (FAPERJ) and is a Scientist of the National Council for Scientific and Technological Development (CNPq). He has published 52 scientific articles in international journals and has mentored dozens of students during their master's and doctoral programs. He was a beneficiary of fellowships for undergraduate, master's, Ph.D., and sabbatical studies throughout his educational career. He currently teaches in the areas of entrepreneurship, intellectual property, and technological innovation, and has mentored the emergence of several technology-based startups.



# In the News

**Scientist from Vale do Sinos receives international grant to strengthen the fight against Covid-19**

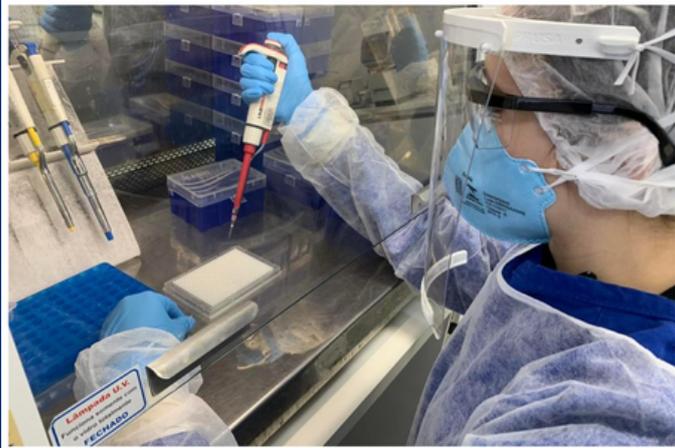
Juliana Gualarte, who works at the Molecular Microbiology Laboratory at Feevale University, was one of seven scientists selected by Dimensions Sciences, in the United States  
*Jornal NH*  
May 6, 2020

**Researcher from Vale do Sinos wins international NGO grant from the United States**

*Fundacred*  
May 7, 2020

## Scientist from Rio Grande do Sul wins American grant to strengthen fight against coronavirus in RS

Researcher Juliana Schons Gualarte will join the Feevale University task force that is focused on diagnosing cases of covid-19 in Vale do Sinos



Born in São Leopoldo, Juliana was selected along with six Brazilians in the public notice of the organization Dimensions Sciences

*GZH*  
May 8, 2020

**Support for researchers helps in training in science and technology in the country, says international scholarship winner**

Juliana Schons Gualarte, from Feevale University, is the only gaúcha selected by the NGO Dimensions Sciences and will receive financial support for research on the coronavirus  
*Jornal de Gramado*  
May 7, 2020

**SEARCH** News from the print edition of 05/08/2020. Changed on 05/08 at 03:00h  
**Researcher from Rio Grande do Sul is selected in a global project on Covid-19**

*Jornal do Comercio*  
May 8, 2020

**Unesp student receives US NGO grant to study Covid-19**

Dimensions Sciences will support and have a mentoring program for 7 Brazilian scientists



*Unesp*  
May 11, 2020

**Three former FAPESP fellows are selected by Dimensions Sciences for research on COVID-19**



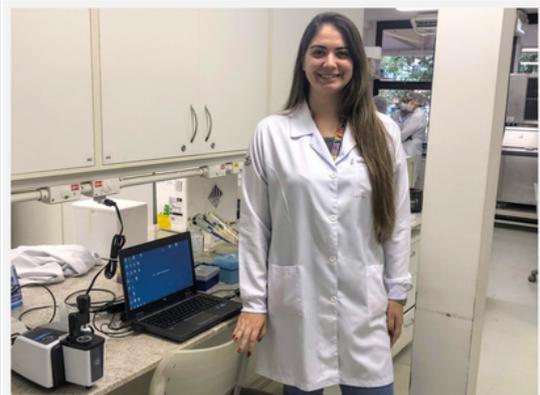
In total, seven Brazilians were chosen and will receive a scholarship from the non-governmental organization based in the United States ( *image: disclosure* )

*FAPESP*  
May 11, 2020

**Doctoral student at UFU is chosen to receive an emergency scholarship**

American institution selected seven Brazilian researchers who develop work to combat Covid-19

Per: Marco Cavalcanti  
Recomendado | Tweetar



Isabela Lima: 'I think everyone who works with research wants their work to help society' (photo: researcher's collection)

*Comunica*  
May 14, 2020



# In the News

## From Baixada Fluminense to California: the young Brazilian scientist selected to study the coronavirus

Mariana Alvim - @marianaalvim  
From BBC News Brazil in Sao Paulo

8 June 2020



PERSONAL ARCHIVE

Rômulo Neris was one of seven young researchers selected to study covid-19 with a grant from Dimensions Sciences

As a child, the Jurassic Park films enchanted Rômulo, helping him to know, at age 13, that he would like to be a biologist in the future.

BBC News Brazil  
June 8, 2020

## From the Baixada Fluminense to California: The Brazilian Scientist Chosen to Study Coronavirus

By Mariana Alvim • Translation by Sarah Jacobs • July 6, 2020



Rio on Watch  
July 6, 2020

## Executive creates emergency grants amid the pandemic

Beatriz Bulla, Correspondent, Washington  
July 13, 2020 | 5:00 am

Brazilian states



Estadão  
July 13, 2020



JN MÁRCIA FOURNIER  
fundadora e presidente da Dimensions Sciences

## Young scientists from Brazil act in task forces against the pandemic

4 min Airing on 18 Jul 2020

Non-profit organization receives donations from companies and individuals to multiply ideas and illuminate research of young talents.

Globoplay  
July 18, 2020



## Young man from Baixada Fluminense studies the genetics of the new coronavirus

4 min Showing on Aug 15, 2020

Rômulo won a scholarship from an American organization to stimulate science to research the mutations of the virus. The father, who works as a ticket clerk at a train station, was essential for his son to follow the path of research.

Globoplay  
August 15, 2020

## Organization creates scholarship program for research on Covid-19

Dimensions Sciences was founded by executive Márcia Fournier to give Brazilian students the opportunity to collaborate with coronavirus initiatives

ANI 1 ANI Student

posted on 04/09/2020 19:27 / updated on 04/09/2020 19:33



Seven researchers from all over Brazil were awarded grants to contribute to the advances of Covid-19 - (photo: Geovana Albuquerque/Agência Saúde)

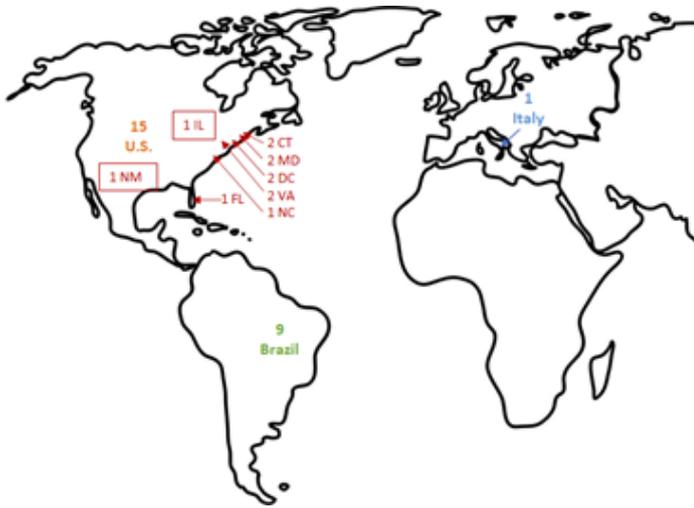
Correio Braziliense  
September 4, 2020



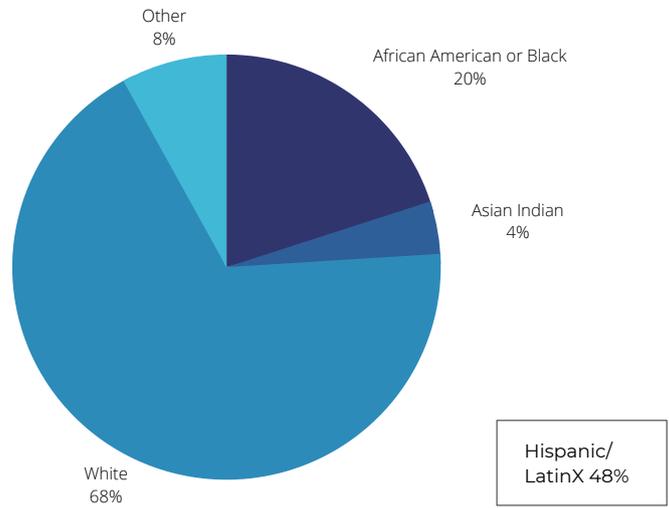
# Diversity Profile

We conducted a demographic survey of our volunteers. The following results are based on 25 total respondents, including members of the Board of Directors, as of June 17, 2021.

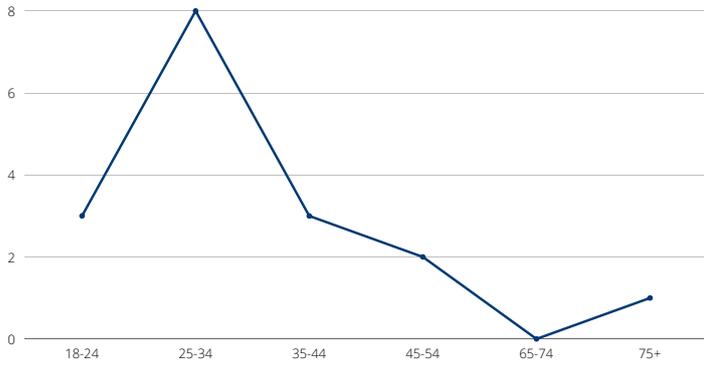
## Geography



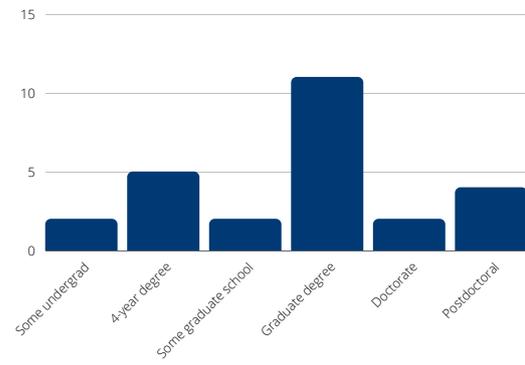
## Ethnicity



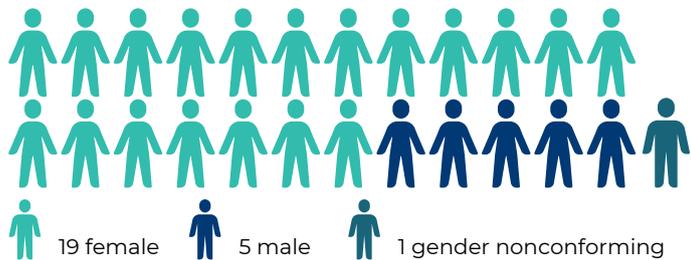
## Age



## Education



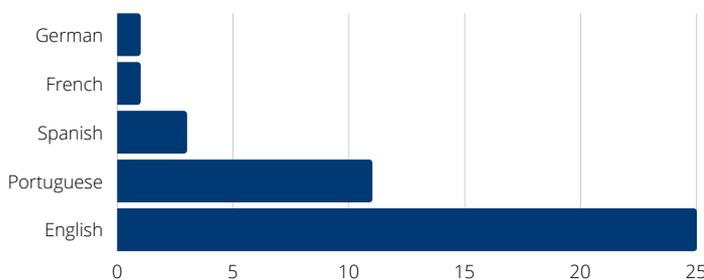
## Gender



## Caretakers



## Languages Spoken



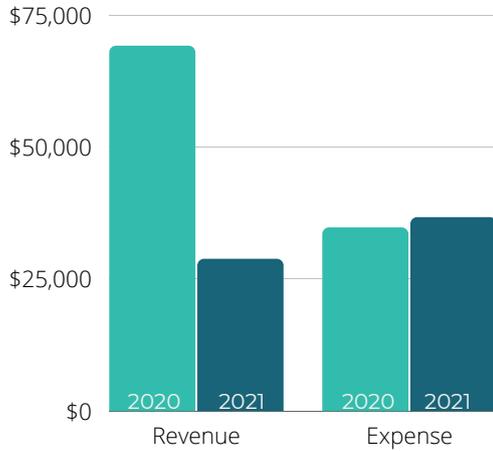
## Disabilities



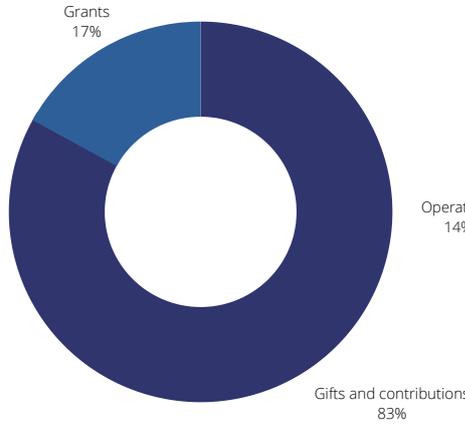


# Financial Information

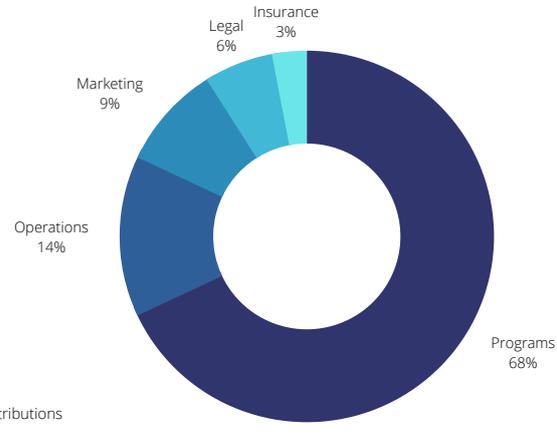
## 2020 Versus 2021



## Revenue 2021



## Expense 2021



## Contributions: All Donations 2020–2021

### Founder's Circle (\$50,000 or more)

- Anonymous family fund through J.P. Morgan Charitable Giving Fund: \$50,000

### Silver (\$5,000+)

- Capital One: \$7,500
- Magalu: \$6,500
- Drummond Advisors: \$5,500
- Claudia Mitchell: \$5,000

### Bronze (\$1,000+)

- Marcia Fournier and Dean Oliver: \$4,854.78
- Stephanie Bowles: \$3,000
- Grupo In Press: \$1,877.07
- Lilian Quintino de Oliveira: \$1,176.79
- Koka Kliora: \$1,000

### Ambassador (\$250+)

- Ready Computing: \$500
- The Gap: \$750
- Sally Cowal: \$500
- Larry Brownell: \$255.58
- Ann Goodman: \$250
- AlmaXP: \$250
- Anonymous donor-advised fund through Fidelity Charitable: \$250
- Mariangela Smania: \$250

### In Kind Support

- Ardian Group
- Decante-se
- MasterClass
- Melt Design
- Muse Vineyards
- Primetour
- Rawganic

### Strategic Partners

- Academia Industry Opportunities Group
- Coordination for the Improvement of Higher Education Personnel (Coordenação de Aperfeiçoamento de Pessoal de Nível Superior) (CAPES)
- Educare Espaço Educacional
- KID Museum
- Women of Brazil Group, Silicon Valley Chapter (Grupo Mulheres do Brasil Nucleo do Silico)

### Endorsements

- The Brazilian Report
- Brazilian Studies Association (BRASA)
- Brazilian Voices
- Embassy of Brazil in Washington, D.C.
- Innovation Diplomacy Program, Brazilian Government Ministry of Foreign Affairs
- Pub-NY



# Sponsors & Partners



Our first ScientistA Award recognized female Brazilian scientists living in the U.S. We couldn't have provided this award without the partnership of Silicon Valley's Chapter of Grupo Mulheres Brasil and its chair, Luiza Helena Trajano. Ms. Trajano and her family own Magazine Luiza, or Magalu, one of Brazil's largest retail companies. As the company flourishes in retail, Ms. Trajano uses her influence to support people and social change. She is an advocate for abused women and favors quotas for women on company boards. She knows social change won't happen without a hard push.

ACCOUNTING · TAX · LEGAL · ADVISORY

Financial support from Drummond Advisors enabled us to offer our very first scholarship, the 2020 COVID-19 Task Force Scholarship.

Drummond Advisors is an organization that operates in the internationalization of companies. Drummond offered tax and fiscal assistance to Dimensions Sciences and all seven of our 2020 Task Force Scholarship recipients.

Drummond Advisors operates in the U.S. and Brazil. They are a firm of accountants, lawyers, managers, and consultants with experience in international business, enabling a broad and complete view of the challenges involved in international transactions.

Thanks to generous support from Capital One Foundation, in 2021 we partnered with KID Museum in Washington, D.C. to support children most affected by pandemic-related learning loss to provide after-school STEM instruction.

Thanks to Capital One, a company that strongly believes in building the communities where they live and work, we took science and technology into 10 homes in the Washington, D.C. community, where we and Capital One are based.

Additional support from Capital One in 2021 will provide funding for our 2022 DS Bridges program.

Grupo In Press has supported Dimensions Sciences through in kind donations of marketing and public relations support. Grupo In Press is a communications holding company formed by global public relations and services agencies specializing in marketing and reputation. Industry leaders in Brazil, Grupo In Press offers creative and integrated solutions to more than 200 clients.



# Sponsors & Partners



Early in our history, Dimensions Sciences needed a logo that would clearly show our spirit of innovation and our mission to support and inspire future scientists. Melt Design donated resources to create a logo that would visually represent our mission.

Along with the design of our logo, Melt donated their services to develop our color palette and other elements of our branding, which are used throughout our website, social media, communications, and programming.



Thanks to a grant from MasterClass, Dimensions Sciences has been able to offer volunteers and donors one-year subscriptions to its online learning platform.

MasterClass offers more than 150 classes on a variety of subjects taught by world-class experts. Its classes are taught by celebrities and VIPs who have a wealth of knowledge and experience and are ready to share it. Its video classes are well-produced and have a cinematic feel, making learning with MasterClass highly engaging.



Ardian Group is a technology company that helps people collect, manage, and use personal information securely. They partnered with Dimensions Sciences in 2020 to develop the COVID-19 Task Force Scholarship, supporting Brazilian scientists researching COVID-19.

Data security was a paramount concern in developing the scholarship, and Ardian Group donated a platform that was instrumental in evaluating scholarship applicants. With its expertise in delivering reliable solutions in sorting and sharing sensitive information through PVITL, they quickly deployed a no-code data management platform to meet

Dimensions Sciences' specific needs to transmit sensitive information and applicant videos.



Coordination for the Improvement of Higher Education Personnel (CAPES) is a foundation within the Ministry of Education in Brazil whose central purpose is to coordinate efforts to improve the quality of Brazil's faculty and staff in higher education through grant programs. CAPES is particularly concerned with the training of doctoral candidates, predoctoral short-term researchers, and postdoctoral scholars.

Together with CAPES, Dimensions Sciences developed the New Dimension Award, awarded in 2020 and 2021, a pioneer initiative aiming to honor women in science.



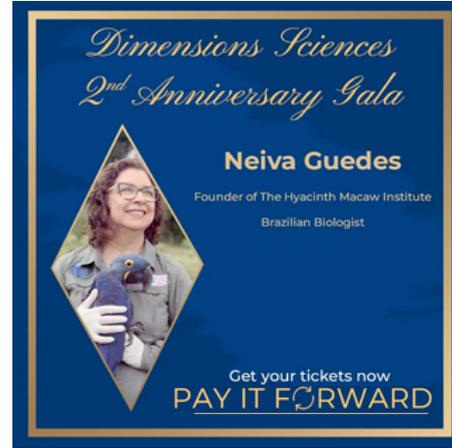
# Programs & Impact

## Gala 2020



[First Anniversary Celebration](#)

## Gala 2021



[Second Anniversary Gala](#)

## Impact 2021

**5,000** people reached

**450** individuals impacted

**111** [blogs](#) published

**81** [videos](#) produced

**40** cash awards

**2** countries impacted (Brazil and U.S.)



[Viewer Picks 2021](#)

## KID Museum Scholarship

2020

8 children  
grades 2–9  
Washington, D.C.



2021

30 children  
grades 2–9  
Washington, D.C.



## 2020 COVID-19 Task Force Scholarship



Romulo Neris, M.Sc.  
Rio de Janeiro, RJ, Brazil  
Federal University of Rio de Janeiro  
Institute de Microbiology



Lilian Cristina Russo, Ph.D.  
Sao Paulo, SP, Brazil  
University of Sao Paulo  
Institute de Chemistry



Glauca Rigotto Caruso, M.Sc.  
Ribeirao Preto, SP, Brazil  
Supera Startup Innovation Incubator  
University of Sao Paulo Technology Park



Juliana Gularte, Ph.D.  
Novo Hamburgo, RS, Brazil  
University FEEVALE



Leonardo Schultz da Silva, Ph.D.  
Sao Vicente, SP, Brazil  
University State of Sao Paulo  
Institute of Biology



Italo A. Castro, M.Sc.  
Ribeirao Preto, SP, Brazil  
University of Sao Paulo  
School of Medicine



Isabela Lemos de Lima, M.Sc.  
Uberlandia, MG, Brazil  
Federal University of Uberlandia  
Institute de Biotechnology



# Scholarship & Award Recipients

Dimensions  
Sciences

## New Dimension Award

2020



Giseli Buffon, Ph.D.

Watch: [Dr. Giseli Buffon talks about the impact of Dimensions Sciences on her career](#)

2021



Luciana Mendes, Ph.D.

Watch: [Dr. Luciana Mendes talks about the challenges of the multiplicity of women's roles in science](#)

## 2021 ScientistA Award



Izabella Pena, Ph.D.

Postdoctoral Fellow, Whitehead Institute  
Investigates which chemicals build up in lysosomes in Huntington's Disease, a neurodegenerative disease

scientistA



Clarissa Fontes, Ph.D.

Postdoctoral Fellow  
University of Minnesota  
Investigates the capacity of oak species to resist drought

### *Honorable Mentions*

Mirella Altoe  
New York University

Caroline Junqueira  
Boston Children's Hospital/  
Harvard Medical School

Amanda Tomie Ouchida  
Broad Institute of MIT and Harvard

Maria Cecilia Campos Canesso  
The Rockefeller University

Luciana Padua Tavares  
Brigham and Women's Hospital/  
Harvard Medical School



# Scholarship & Award Recipients

## 2021 DS Bridges Scholarship



Jessica Placido  
UFRJ  
Rio de Janeiro, RJ, Brazil



### DS BRIDGES

Dimensions Sciences  
Bridging Gaps with Scholarships



Raianna Boni  
UFMG  
Belo Horizonte, MG, Brazil



Lena Schimke  
USP  
Sao Paulo, SP, Brazil



Nayara Coelho  
UFPE  
Olinda, PE, Brazil



Vitor Hugo Neves Nascimento  
UFMG  
Juiz de Fora, MG, Brazil



Harrison David Assis Santos  
UFAL  
Maceio, AL, Brazil



Thiago Soares de Souza Vieira  
UFRJ  
Rio de Janeiro, RJ, Brazil

"Dimensions Sciences helped me believe in myself, in my knowledge and skills. Now I am definitely a much more empowered woman."

"I learned how to better pay attention to myself, so I can realize what really makes me happy or unhappy regarding my professional and personal life."

"The intensive personal development and coaching are as important as financial support for a lot of researchers."

"I learned to be more self-confident and set limits and goals. I now have greater self-compassion."

# Looking Forward: 2022 & Beyond

The theme for 2022 is Growth. We're focusing on growing our programs, growing our Board of Directors, growing our volunteer base, growing our outreach, and growing our capital. We're also focused on growing the breadth of diversity of our organization to represent our constituency.

We want to support a growing number of individuals, getting them to the starting line to be a professional in STEM. If they can't get to the starting line, they can't get to the finish line. The long-term gap of underrepresented groups in STEM won't be resolved if we don't see more individuals pursuing STEM careers. And we will be there to support them through funding gaps.



This year, we're taking the first steps to grow our Board of Directors. We are increasing the number of Board members, expanding the diversity of our Board, and expanding the reach of the Board across the operations of the organizations. Our new Board will better represent the diversity of our constituents and will be more hands-on in how they work within Dimensions Sciences.

Additionally, to support our network of scientists, we will release DS Connects—a database to connect our scientists and track their progress. DS Connects will allow our scholars, award recipients, mentors, volunteers, and others to enter information about their work and contact information so other scientists may search based on research area, location, university, and more to increase their network of contacts within the scientific community.



Finally, we announced a partnership with the State University of Campinas (UNICAMP), which is consistently ranked among the top universities in Brazil. Through our partnership with UNICAMP, we will be providing scholarships to Brazilian students in the sciences. This



interdisciplinary collaboration aims to promote early-career scientists from underrepresented backgrounds through research grants and mentoring, thus promoting diversity and inclusion in Brazilian science.

Our plans for 2022 are ambitious, but with our supporters' help, they're achievable. Now and into the future, we're focusing on getting people to the starting line!

# General Information

<b>Name</b>	Dimensions Sciences Inc.
<b>Mailing Address</b>	880 New Jersey Avenue SE Suite 821 Washington, DC 20003
<b>Tax Information</b>	Dimensions Sciences is a charity 501(c)(3) organization formed on November 21, 2019 EIN: 84-3887400
<b>Contact Information</b>	website: <a href="http://dimensionsciences.org">dimensionsciences.org</a> email: <a href="mailto:info@dimensionsciences.org">info@dimensionsciences.org</a>

