



# Pablo Damián Ravazzoli

*Curriculum Vitae*

## PERSONAL DATA

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*Name* Pablo Damián Ravazzoli  
*Born* August 19th, 1985 - Argentina  
*Document* 31776644  
*Address* Scavini 729, Tandil, Bs As, Argentina - CP:7000  
*Phone* +54 (0249) 154-633263  
*eMail* pablo.ravazzoli@gmail.com  
*WebPage* <http://pabloravazzoli.com.ar/>

## WORK DATA

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*Title* PhD: Physics - Fluid Dynamics - Fac. Cs Exactas - UNCPBA  
*Research* Full Time Postdoctoral Fellow - CIFICEN-CONICET  
*Teaching* Teaching Assistant -FCEx-UNCPBA  
*Teaching* Hight Scholl Teachers Professor - ISFDyT  
*Teléfono* 54 (0249) 4385661 Int 2123  
*Mail* pravazzoli@ifas.exa.unicen.edu.ar

## EDUCATION

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**Postdoctoral Fellow** 2019-2022  
*Fluid Physics Group, IFAS-CIFICEN, UNCPBA*  
Advisor: “ Dr. H. Stone”

**Physics PhD** 15/03/2019  
*Fluid Physics Group, IFAS-CIFICEN, UNCPBA*  
Thesis: “ Wetting and dewetting processes over solid plane surfaces: drops and filaments”

**Licenciado en Ciencias Físicas (M. Sc.)** 30/09/2013  
*UNCPBA*  
Thesis: “ Gravity currents over porous media with emergent obstacles.”

**English Certificate** 15/03/2002  
*AAI-High Level*

## PROFESSIONAL EXPERIENCE

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### RESEARCH

**Posdoctoral Research - Fac. Cs Exactas - UNCPBA (Full Time)** 01/04/19 -  
*CIFICEN-CONICET-Tandil, Bs.As., Argentina*

**Physics PhD Student - Fac. Cs Exactas - UNCPBA (Full Time)** 01/04/14 - 15/03/19  
*CIFICEN-CONICET-Tandil, Bs.As., Argentina*

**Referee** 2021  
*Scientific Board Member*  
Fluidos 2021: Meeting on Recent Advances in Physics of Fluids and its Applications

**Referee** 2017-Present  
*Physics of Fluids - AIP*

**Student Research - Fac. Cs Exactas - UNCPBA (Part Time)** 01/10/2011-30/09/2012  
*CICPBA-Tandil, Bs.As., Argentina*

**High School Introduction to Research (Part Time)** 11/03/2002-11/09/2002  
*Fundación Antorchas - UNCPBA*

## TEACHING

**Teaching Assistant** 01/04/18 -  
*Facultad Cs Exactas - UNCPBA*  
Electricity and Magnetism and Earth Science I

**Teaching Assistant** 01/04/15 - 31/03/16  
*Facultad Cs Exactas - UNCPBA*  
1st Semester: General Physics II  
2nd Semester: Radiation

**Student Assistant** 01/04/12 - 30/09/12  
*Facultad Cs Exactas - UNCPBA*  
Experimental Physics II  
Developing basic thermophysics experiments

**High School Teaching** 28/04/2009 - 24/10/2010  
*EEA N°1-Dr Ramón Santamarina*  
Apply Mathematics

## PUBLICATIONS

1. P. Ravazzoli, A. González, J. Diez, “ Gravity Effects in the Retraction of Liquid Filaments Resting on an Inclined Plane”, Vol. 33 Núm. Especial: Anales AFA, (2022)
2. P. Ravazzoli, A. González, J. Diez, H. Stone, “ Buoyancy and capillary effects on floating liquid lenses ”, Phys. Rev. Fluids 5, 073604, (2020)
3. P. Ravazzoli, I. Cuellar, J. Diez, A. González, “ Contact angle hysteresis effects on a drop sitting on an incline plane”, Phys. Rev. E 99, 043105, (2019)
4. I. Cuellar, P. Ravazzoli, J. Diez, A. González, N. Roberts, J. Fowlkes, P. Rack, L. Kondic, “ Self-assembly of a drop pattern from a two-dimensional grid of nanometric metallic filaments”, Phys. Rev. E 98, 043101, (2018)
5. I. Cuellar, P. Ravazzoli, J. Diez, A. González, “ Drop pattern resulting from the breakup of a bidimensional grid of liquid filaments”, Physics of Fluids 29, 102103, (2017)

6. P. Ravazzoli, I. Cuellar, A. González, J. Diez, “ *Wetting and dewetting processes in the axial retraction of liquid filaments*”, Phys. Rev. E 95, 053111, (2017)
7. P. Ravazzoli, A. González, J. Diez, “ *Drops with non-circular footprints*”, Physics of Fluids 28, (2016)

## PRESENTATIONS

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### POSTERS

1. Cuellar, I., Ravazzoli, P., Diez, J., González, A., *Self-assembly of nanodrops from metallic grids*, XV Reunión de Fluidos y sus Aplicaciones, Nov 2018, CABA, Argentina
2. Diez, J., Ravazzoli, P., Cuellar, I., González, A., *Self-assembly of drops from metallic grids*, Y-tec NANO, Jun 2018, La Plata, Argentina
3. Diez, J., Ravazzoli, P., Cuellar, I., González, A., *Wettability dynamics of liquid filaments on horizontal substrates*, 70<sup>th</sup> Annual Meeting of Division of Fluid Dynamics (DFD) of the American Physical Society (APS), 19-21 noviembre 2017, Denver, Colorado, EEUU
4. Diez, J., Cuellar, I., Ravazzoli, P., González, A., *Unstable bidimensional grids of liquid filaments: Drop pattern after breakups*, 70<sup>th</sup> Annual Meeting of Division of Fluid Dynamics (DFD) of the American Physical Society (APS), 19-21 noviembre 2017, Denver, Colorado, EEUU
5. Ravazzoli, P., Cuellar, I., González, A., Diez, J., *Experimental and numerical study of liquid filaments over inclined substrates*, 102° Reunión Nacional de Física AFA, 26-29 Sep 2017, La Plata, BsAs
6. Cuellar, I., Ravazzoli, P., Diez, J., González, A., *Drop pattern resulting from the breakup of a bidimensional grid of liquid filaments*, 102° Reunión Nacional de Física AFA, 26-29 Sep 2017, La Plata, BsAs
7. Cuellar, I., Ravazzoli, P., Diez, J., González, A., *Liquid filament longitude influence on the resulting drops*, XIV Reunión de Fluidos y sus Aplicaciones, 9-11 Nov 2016, La Plata, BsAs
8. Ravazzoli, P., Cuellar, I., González, A., Diez, J., *Retraction dynamic study of a liquid filament extreme*, XIV Reunión de Fluidos y sus Aplicaciones, 9-11 Nov 2016, La Plata, BsAs
9. Cuellar, I., Ravazzoli, P., Diez, J., González, A., *Liquids filament crosses over horizontal substrates*, 101° Reunión Nacional de Física AFA, 4-7 Oct, 2016, San Miguel de Tucumán, Tucumán
10. Ravazzoli, P., Cuellar, I., González, A., Diez, J., *Experimental study of the wetting and dewetting in the liquid filament rupture*, 101° Reunión Nacional de Física AFA, 4-7 Oct, 2016, San Miguel de Tucumán, Tucumán
11. García, H., Martínez, N., Velázquez, D. y Ravazzoli, P., *Mobile phones and netbooks in classroom: Problem or solution?*, 100° Reunión Nacional de Física AFA, 22-25 Sep, 2015, Merlo, San Luis
12. Ravazzoli, P., Diez, J., González, A., *Not circular footprint drop: Experimental study and model*, 100° Reunión Nacional de Física AFA, 22-25 Sep, 2015, Merlo, San Luis
13. Ravazzoli, P., Diez, J., González, A., *Characterization of drops with non circular footprints*, XIII Reunión de Fluidos y sus Aplicaciones, 5-7 Nov 2014, Tandil, BsAs
14. Ravazzoli, P., Thomas, L. y Marino, B., *Gravity currents in vegetated channels with permeable backgrounds*, Congreso Nacional del Agua, Oct, 2013, San Juan
15. Ravazzoli, P., Thomas, L. y Marino, B., *Gravity currents over porous media with obstacles*, XII Reunión de Fluidos y sus Aplicaciones, 5-7 Nov, CABA

16. Ravazzoli, P., Thomas, L. y Marino, B., *Asymptotic regimen of gravity currents in non rectangular cross section channels*, 94° Reunión Nacional de Física AFA, 14-18 Sep, 2008, Rosario, Santa Fe
17. Ravazzoli, P., Thomas, L. y Marino, B., *Gravity currents over a porous layer that lies on a solid substrate*, 93° Reunión Nacional de Física AFA, 15-19 Sep, 2008, CABA
18. García, H., Martínez, N., Velázquez, D. y Ravazzoli, P., *Sphere movement study in and out of a liquid interface. Results, model and discussion*, 92° Reunión Nacional de Física AFA, 24-28 Sep, 2007, Salta
19. García, H., Martínez, N., Velázquez, D. y Ravazzoli, P., *A hole ball appear. Archimedes and Stokes in action. Measurements and model.*, 91° Reunión Nacional de Física AFA, 25-29 Sep, 2006, Merlo, San Luis

## ORAL PRESENTATIONS

1. **Ravazzoli, P.**, González, A., Diez, J., *Gravity Effects in the Retraction of Liquid Filaments Resting on an Inclined Plane*, Fluidos 2021: Meeting on Recent Advances in Physics of Fluids and its Applications, 2021, Paraná - Argentina
2. **Ravazzoli, P.**, *“Wettability” o cuándo moja un fluido*, Seminar: Grupo de Mecánica Estadística, 2021, UDELAR - Montevideo Uruguay
3. Ravazzoli, P., González, A., Diez, J., Stone, H., *Buoyancy and capillary effects on floating liquid lenses*, 105° Reunión Nacional de Física AFA, Sep 2020, Córdoba, Argentina
4. Ravazzoli, P., Cuellar, I., González, A., Diez, J., *Contact angle hysteresis effects over static drops on an incline*, XV Reunión de los fluidos y sus aplicaciones, Nov 2018, CABA, Argentina
5. Ravazzoli, P., Cuellar, I., González, A., Diez, J., *Experimental and numerical study of liquid filaments over inclined substrates*, 102° Reunión Nacional de Física AFA, 26-29 Sep 2017, La Plata, BsAs, Argentina
6. Ravazzoli, P., Cuellar, I., González, A., Diez, J., *Experimental study of the wetting and dewetting in the liquid filaments breakup.*, División Fluidos y Plasmas - 101° Reunión Nacional de Física AFA, 4-7 Oct, 2016, San Miguel de Tucumán, Tucumán
7. Ravazzoli, P., Diez, J., González, A., *Not circular footprint drop: Experimental study and model*, División Fluidos y Plasmas - 100° Reunión Nacional de Física AFA, 22-25 Sep, 2015, Merlo, San Luis, Argentina

## TAKEN POSTGRADUATE COURSES

1. **Computational Fluid dynamics** 2021  
*Facultad de Ingeniería - UNMdP*  
 Docente responsable: Dr. Santiago A. Urquiza (UNMdP)  
 Workload: 60hs (Incomplete)
2. **Blood physical chemistry and biology** 2019  
*Facultad de Ciencias Exactas - UNCPBA*  
 Docente responsable: Dr. Leonardo Feldman (Fac. Cs. Salud - UNCPBA)  
 Workload: 45hs
3. **Workshop: Python and applications** 2019  
*Facultad de Ciencias Exactas - UNCPBA*  
 Docente responsable: Dra. Virginia Cifuentes (Dto. Comp y Sist - UNCPBA)  
 Workload: 60hs

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| <p>4. <b>Interface problems in complex fluids</b><br/> <i>Departamento de Física - UNS</i><br/> Professors: PhD. Dominique Langevin (Université de Paris XI, France) -<br/> PhD. Hernán Ritacco (UNS)<br/> Workload: 30hs</p>                                  | <div style="background-color: black; color: white; padding: 2px 5px; display: inline-block;">2017</div> |
| <p>5. <b>Lagrangian Coherent Structures in geophysics fluids</b><br/> <i>Facultad de Ciencias Exactas y Naturales - UBA</i><br/> Professors: PhD. Francisco Javier Berón-Vera (RSMAS, Florida, EEUU) -<br/> PhD. Martín Saraceno (UBA)<br/> Workload: 65hs</p> | <div style="background-color: black; color: white; padding: 2px 5px; display: inline-block;">2016</div> |
| <p>6. <b>Introduction to Monte Carlo methods</b><br/> <i>Facultad de Ciencias Exactas - UNCPBA</i><br/> Professors: PhD. Walter Cravero (UNS) -<br/> PhD. Jose M. Massa (UNCPBA)<br/> Workload: 40hs</p>   | <div style="background-color: black; color: white; padding: 2px 5px; display: inline-block;">2016</div> |
| <p>7. <b>Microfluidics: basis and applications</b><br/> <i>Facultad de Ciencias Hídricas - UNL</i><br/> Professor: PhD. Claudio L. A. Berli (UNL)<br/> Workload: 45hs</p>  | <div style="background-color: black; color: white; padding: 2px 5px; display: inline-block;">2016</div> |
| <p>8. <b>Hydrodynamics Instabilities</b><br/> <i>Facultad de Ciencias Exactas - UNCPBA</i><br/> Professor: PhD. Alejandro González (UNCPBA)<br/> Workload: 60hs</p>  | <div style="background-color: black; color: white; padding: 2px 5px; display: inline-block;">2015</div> |
| <p>9. <b>High accuracy physics experiments</b><br/> <i>Facultad de Ciencias Exactas - UNCPBA</i><br/> Professor: PhD. Ranea Sandoval, Héctor (UNCPBA)<br/> Workload: 60hs</p>  | <div style="background-color: black; color: white; padding: 2px 5px; display: inline-block;">2014</div> |
| <p>10. <b>Stochastic differential equations and its relation with partial differential equations</b><br/> <i>Facultad de Ciencias Exactas - UNCPBA</i><br/> Professor: PhD. Fernández, Roberto (Utrecht University)<br/> Workload: 45hs</p>                    | <div style="background-color: black; color: white; padding: 2px 5px; display: inline-block;">2014</div> |

## **RESEARCH FOUNDING AND FELLOWSHIPS**

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### **RESEARCH FOUNDING**

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| <p><b>Multianual Research Project: PICT</b><br/> <i>Physical aspects that modifies the droplets formation in micro and nano scales</i><br/> UNCPBA (PICT-2020-SERIEA-02119)</p> | <div style="background-color: black; color: white; padding: 2px 5px; display: inline-block;">04/22 - 02/25</div> |
| <p><b>Multianual Research Project: PIP</b><br/> <i>Physical aspects that modifies the droplets formation in micro and nano scales</i><br/> CIFICEN-(11220200102114CO)</p>       | <div style="background-color: black; color: white; padding: 2px 5px; display: inline-block;">10/21 - 10/23</div> |
| <p><b>Young Researchers Project</b><br/> <i>Fabrication and characterization of perovskites nanolayers for solar cells.</i><br/> UNCPBA-(80020190500025CE)</p>                  | <div style="background-color: black; color: white; padding: 2px 5px; display: inline-block;">06/20 - 06/22</div> |
| <p><b>Multianual Research Project: PICT</b></p>   | <div style="background-color: black; color: white; padding: 2px 5px; display: inline-block;">04/18 - 03/21</div> |

*Liquids structures formation is micro and nano scale*  
CONICET - CIFICEN (Code: PICT-2012-1067)

**Strategical Research, Development and Transfer Projects** 2019  
*Low cost device design to study blood pathologies*  
 UNCPBA

**Multianual Research Project: PIP** 03/15 - 05/17  
*Thin liquid films instabilities: drop formation in sub millimeter and nano meter scales*  
 CONICET - CIFICEN (Code: 112-201101-00844)

**Multianual Research Project: PICT** 04/14 - 03/17  
*Patter formation in thin liquid films due to instabilities.*  
 UNCPBA (Code: 931)

**Multianual Research Project** 10/11 - 12/13  
*Basic studies in stratified flux*  
 CIFICEN

**Multianual Research Project** 04/13 - 10/13  
*Hydrodynamic and environmental studies of the Quequen river estuary*  
 FONCyT-ANPyT

## FELLOWSHIPS

**Postdoctoral Fellowship** 01/04/19 - 31/10/22  
*Full Time Research Fellow*  
 CIFICEN - CONICET

**PhD. Fellowship** 01/06/14 - 31/03/19  
*Full Time Research Fellow*  
 CIFICEN - CONICET

**CELFI Scholarship** 05/12/16 - 16/12/16  
*CELFI - Centro Latinoamericano de Formación Interdisciplinaria*  
 To attend to: "Interdisciplinary school of geophysics fluid transport: from oceanic eddies to black holes."

**PhD. Fellowship** 01/04/14 - 31/05/14  
*Full Time Research Fellow*  
 CIFICEN - ANPyT

**Research Training Fellowship** 01/10/2011-30/09/2012  
*Part time Research Fellow*  
 Ms.C Student Fellowship  
 CICPBA - UNCPBA

**Bernardo Hussay Fellow** 11/03/2002-11/09/2002  
*Introduction to Research - High School Fellowship*  
 Fundación Antorchas - UNCPBA

## OTHER SELECTED ACTIVITIES

- Fluid and Plasma division committee member., *Argentinian Physics Association*, 2015-2019,
- Young researchers representative at the faculty government, *Fac. Exactas, UNCPBA*, 2015,
- Student representative, *CEFCE, Fac. Exactas, UNCPBA*, 2010,

- Attending to several Argentinean Physics Students Meetings, *Salta 2007*, Córdoba y Buenos Aires 2008, Rosario 2009,
- Student representative, *CA, Fac. Exactas UNCPBA*, 2009,
- Student representative, *CA, Fac. Exactas UNCPBA*, 2007 y 2008,
- Student representative, *DCFyA, Fac. Exactas UNCPBA*, 2007,

## **UNIVERSITY EXTENSION ACTIVITIES**

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- Exhibition guide, *Science Exhibition: Get fun in the experience "Science Communication 2.0"*, CA N° 049/11, FCEX - UNCPBA
- Project Vicedirector, *Pilot experience in the community treatment of urban solid waste. Art, recycling, and non conventional energies.*, N° 2200-Expediente 1-45053-2012, Consejo Superior de la UNCPBA
- Mandatory Professional Practices, *Liquid characterization*, Degree careers promotion, DC-FyA - FCEX-UNCPBA