



Universiteit  
Leiden  
The Netherlands

## Computations in the social brain

Rojek-Giffin, M.

### Citation

Rojek-Giffin, M. (2021, May 26). *Computations in the social brain*. Retrieved from <https://hdl.handle.net/1887/3180539>

Version: Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/3180539>

**Note:** To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The handle <https://hdl.handle.net/1887/3180539> holds various files of this Leiden University dissertation.

**Author:** Rojek-Giffin, M.

**Title:** Computations in the social brain

**Issue Date:** 2021-05-26

# **Computations in the Social Brain**

**Michael Rojek-Giffin**

ISBN: XXXXXXXXXXXXXXXX

Cover artwork: Shiro36, based on art by Josan Gonzalez

Lay-out: Dennis Hendriks / ProefschriftMaken.nl

Printing: ProefschriftMaken.nl

**Copyright © 2021 M. Rojek-Giffin**

All rights reserved. No parts of this thesis may be reproduced, stored in retrieval system of any nature, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of the publisher.

# **Computations in the Social Brain**

Proefschrift

ter verkrijging van  
de graad van doctor aan de Universiteit Leiden,  
op gezag van rector magnificus prof.dr.ir. H. Bijl,  
volgens besluit van het college voor promoties

te verdedigen op woensdag 26 mei 2021  
klokke 15.00 uur

by

**Michael Rojek-Giffin**  
geboren te de Verenigde Staten  
in 1988

**Promotor**

Prof. dr. C. K. W. de Dreu (Leiden University)

**Co-Promotor**

Dr. Jörg Gross (Leiden University)

**Doctorate Committee**

Prof. dr. Eric van Dijk (Leiden University)

Dhr. dr. J.B. (Jan) Engelmann (University of Amsterdam)

Prof. dr. Marie Claire Villeval (University of Lyon)

Prof. dr. A.G. Sanfey (Radboud University)

Dr. Mirre Stallen (Leiden University)

Prof. dr. S.T. Nieuwenhuis (Leiden University)

## **Table of Contents**

Chapter 1	General introduction	7
Chapter 2	Neurocognitive Underpinnings of Aggressive Predation in Economic Contests	33
Chapter 3	Learning to trust through experience and belief	63
Chapter 4	Generosity Biases the Learning of Cultural Conventions	89
Appendices	Summary	121
	Samenvatting	123
	Acknowledgements	125